

Profile

I'm a self-motivated Informatics engineer with experience in the informatics industry, financial/banking, oil/energy, E-commerce, postal, public and insurance sector.

General knowledge of the banking process and bank specific product knowledge.

High personal integrity, and able to relate to and create trust in all.

Highly articulate, flexible, confident and persuasive team-builder, able to work under own initiative and to motivate and communicate to achieve exceptional business performance, customer and goal oriented.

Dependable and reliable in supporting and enabling team effort to produce genuine long-term sustainable development.

I really like to work with people (teams) because i like to communicate and absorb other people opinions in order to achieve excellent troubleshooting, judgment and decision-making.

Languages 3-Very good 2-Good 1-Basic

	WRITING	READING	SPEAKING	LISTENING
PORTUGUESE	MotherTongue	MotherTongue	MotherTongue	MotherTongue
SPANISH	2	3	3	3
ENGLISH	2	3	3	3
DUTCH	2	2,5	2	2
FRENCH	0,5	1	1	1,5

Driver's License: Yes

EDUCATION

- 2004 – 2005: University of Prague
Network architecture and systems
Java programming
Shell script programming
- 2000 – 2004: University of Bragança (Bachelor)
Informatics Engineering-Software
Software programming
Computer Hardware
Technical informatics
- 1999 – 2000: Naval School Lisbon
Navigation techniques/Naval war Strategy/Leadership course
- 1992 – 1998: High School Bragança
Technologycourse-Informatics
- 1986 – 1992: Primary School

CERTIFICATIONS

- ISTQB-ISEB Foundation Level
- Prince2 Foundation
- Networking Essentials
- Java

COURSES

- Networking Essentials (WAN topology, mixed LAN/WAN operating system environments, DNS/WINS/DHCP, firewall...)
- Philosophy course
- Business Process Requirements Analysis (Accenture)
- MSOffice (excel, word, access ...),MS Outlook
- Introduction to UNIX (Solaris)
- Microsoft Access
- SQL course
- English course (IELTS Cambridge English Course)
- ICRC – Introduction to Cisco Router Configuration
- ISTQB advanced level Test Manager

TECHNICAL SKILLS

O.S.Software: Unix/Linux, Windows NT, Windows XP ,Windows server (2000/2003)

D.B.M.S.: Microsoft SQL Server 2005/2008, TOAD, SQL Developer, Sybase, Oracle, Winsql.

ProgrammingLanguages: SQL, Java, HTML-asp, Pascal, C, C++, Assembly 8086, Unix Shell Script, Artificial Intelligence-Prolog.

TestingTools: HP/Mercury Quality Center, LoadRunner, WinRunner, Test Director, ConverterPro, Compuware TestPartner, QALoad, TrackRecord, QA Director, Bugzilla, Selenium, Spira. Fitness, JMeter, Quick Test Pro.

Others:Photoshop, Flash, Microsoft Visual Studio, Message Queuing, Database Administration Oracle, Sybase, Business Objects,Toad, Sharepoint, Tandem (exposure), VMware, WinSQL, Jira, SoapUI, Maven, Apache.«*See last page-> table*»

Methodologies: Scrum, Agile, RUP, DSDM, Spiral, Waterfall, Extreme Programming-XP, V-Model, Prince2, ISTQB-ISEB, ITIL, T-Map.

RELEVANT WORKING EXPERIENCE

3 June 2019 – 31 December 2020 **Test Automation Coordinator** **ESO**
Working for European Southern Observatory doing test automation for the internal cross-continental Astronomy/Telescope Observation software.

Activities at ESO:

- Define, develop and implement automation frameworks for 2 applications (**Selenium docker, Java, Java Script, Visual Studio, IntelliJ IDEA, Docker, Rest Assure, Linux, Appium**)
- Native mobile application for Android and iOS using custom testing framework based on Appium, Java.
- Continuous integration & delivery (**Jira ,maven,spring, GitHub, SourceTree**)
- Creation and maintenance and development of tests (**Cucumber, Gherkin, BDD**)
- Management, definition, coordination of tasks with colleagues/coworkers (**Agile, Scrum, Kamban, Confluence**)
- Test data creation (**SQL, NoSql, Oracle, MongoDB**)
- WebServices testing (**REST, SOAP**)
- End-to end tests for UAT, Pre-Prod, component test.

1 March 2017 – 31 May 2019 **Test Automation Coordinator** **ING Bank**
Working for ING bank doing test automation for the online products application.

Activities at ING Bank:

- Define, develop and implement automation framework (**Selenium,Java, IntelliJ IDEA**)
- Continuous integration & delivery (**Jira ,maven,spring, junit, hamcrest, mockito, GitHub,SourceTree**)
- Creation and maintenance and development of tests (**Cucumber, Gherkin, ATDD, BDD**)
- Define Guidelines with peers (**Agile, Kamban, Confluence**)
- Test data creation (**SQL, Python, Ruby**)
- Teach and coach squads members, make workshops, trainings and coaching.
- WebServices testing (**REST, SOAP**)
- Create Mobile/cross-browser testing and Performance testing (**JMeter**).
- Defect Management (**Jira-Xray**)
- End-to end tests for UAT, Pre-Prod, component test.

2 May 2016 – 28 February 2017 **Test Automation Coordinator** **Bol**

Working for Bol.com automating the internal store management products application.

Activities at Bol:

- Creation and maintenance of test data **PL-SQL** and **SQL Developer, XMLSpy**.
- Create, update tests and documentation (**Jira Confluence, Stash, GIT/SVN, SourceTree**)
- Testing **java** web applications for the complete backend (**Maven, Jenkins**).

- Desig, build, maintain and execute automated test Scenarios, scripts and automate regression testing (**Selenium, Javascript, Eclipse**)
- Test webservices with **SoapUI**.
- End-to end tests for UAT, Pre-Prod, FAT in a SOA environment.
- Cross-Browsing testing and Performance testing (**Sauce Labs, JMeter**).
- Defect management, tracking and resolution (**Jira**).

1 September 2015 – 29 April 2016 Test Automation/Coordinator Rabobank

Working for Rabobank Utrecht on the web-application that enables clients to request loans.

Activities at Rabobank:

- Coordination of overall end2end and System Integration testing (**Scrum, JIRA**).
- Managing the quality aspect in all milestones in the integral product development cycle.
- Definition and execution of test processes (**Confluence**). Planning and execution of test plans for all phases of software acquisition, development and delivery.
- Coordinates and coaches project team regarding proper test procedure, review techniques for test basis testing, test cases (**Cucumber BDD**)..
- Responsible to coach, lead, prepare team of 4 test analysts.
- Build test plans, test budgets, implementation, monitoring and evaluation of the systems tested and regularly report on the progress of projects.
- Drive continuous improvement in test coverage and quality
- Engineer, write and execute Test Scenarios, Scripts (**QTP, Selenium and Protractor Angular, VMware, Javascript, python, ruby, WebStorm, Jenkins, Maven**)
- Prepare and conduct system (**Stubs**) and end-to end- tests in a **Scrum** team (**Jira**).
- Create, update tests and documentation (**Jira Confluence, Stash, GIT/SVN, SourceTree**)
- Preparation (test) time and cost estimates. Identification and mitigation project risks via testing. Plans the testing life cycle and recommendation approaches to improve software quality

1 April 2015 – 31 August 2015 Test Manager/Automation Staples

Working for Staples (Distributed in several locations Holland (Test, Business), Poland (partly Development) and in India (partly Development) setting up from 'scratch" the QA department-testing the Price Competitor Tool.

Activities at Staples:

- Coordination of overall end2end and System Integration testing, Sprint planning (**Scrum, JIRA**).
- Definition and execution of test processes (**Confluence**). Planning and execution of test plans for all phases of software acquisition, development and delivery.
- Analyse Business/IT requirements and create Test Script documentation required to support the testing activity
- Coordinates and coaches project team regarding proper test procedure, review techniques for test basis testing, test cases.
- Responsible to coach, lead, prepare team of 3 test analysts.
- Build test plans, test budgets, implementation, monitoring and evaluation of the systems tested and regularly report on the progress of projects.
- Drive continuous improvement in test coverage and quality

- Engineer, write and execute Test Scenarios, Scripts (**QTP, Selenium** and **Protractor Angular, VMware, Javascript, python, ruby, WebStorm, Jenkins**)
- Prepare and conduct system (**Stubs**) and end-to end- tests in a **Scrum** team (**Jira**).
- Create, update tests and documentation (**Jira Confluence, Stash, GIT/SVN, SourceTree**)
- Preparation (test) time and cost estimates. Identification and mitigation project risks via testing. Plan the testing life cycle and recommendation approaches to improve software quality
- Setup test data/environment.

11 January 2015 – 31 March 2015**Test Coordinator/Analyst KMD**

Working for KMD (Distributed in several locations Denmark (Management) and in Poland (Development, QA)) testing the Danish government software for public Social benefits (Welfare).

Activities at KMD:

- Developing and maintaining test strategies, test plans and other test artifacts & deliverables such as test environments, test scenarios, test scripts, traceability matrices, test execution schedules, defect reports, test summary reports as per the project requirements.
- Measuring and monitoring progress to ensure test delivery is on time, within budget and to an agreed level of quality.
- Identify, analyse and effectively escalate key risks / issues to the project manager/delivery manager as necessary.
- Managing a Testing team (on-shore and off-shore).
- Automate End to End scenarios and Cross System scenarios (**BDD/Cucumber, SoapUI, Selenium, Ruby, Gradle, Groovy**)
- Create and execute functional, non-functional Performance (**Jmeter**), load, availability tests.
- Report, follow, close defects and root cause analyses (**Jira, HP ALM/Quality Center, Agile/Scrum**)
- Testing systems using continuous integration (**JEE, XML, HTML, Javascript, Git, IntelliJ IDEA, RabbitMQ**)

1 January 2014 – 19 December 2014**Test Manager****European Commission**

Working for the European Commission for the IT Unit, DG Connect testing the application H2020 and related systems (SEP, PDM, Participant Portal, ABAC)

Activities at European Commission:

- Document, implement, monitor, and enforce all processes for testing as per standards defined by the organization.
- Work with the project/application manager to define, document and agree the test approach and test plan.
- Track and prepare the report of testing activities like test testing results, test case coverage, required resources, defects discovered and their status, performance baselines.
- Define the Test Strategy
Check / Review the Test Cases documents.
- Organize the status meetings and send the Status Report (Daily, Weekly etc.)
- Responsible for the analysis, reporting and communication of test results on all assigned projects, including outstanding defects and test status (**JIRA**).

- Test Estimation
- Conducting, organizing and coordinating regression and chain tests.
- Creation of test data **PL-SQL** and **SQL Developer, XMLSpy**.
- Weekly test progress and status meeting (including defect status) and daily stand up (**Scrum/Agile**).
- Executing of functional acceptance, system & integration tests, generation of report on test execution.
- Act as the single point of contact between Development and Testers.Registration of defects and follow up (**Rational Team Concert**)
- Pair with developers (**Java, Maven, Jenkins**) and analysts (Agile) to resolve defects.
- Clarify requirements with analysts, developers, managers and write User Stories (**TDD**) approach.

1 October 2013 – 20 December 2013**Test Manager ING-Belgium**

Working for ING Bank located in Brussels in the Information Technology Services – Domestic Product Services (Home banking application).

Activities at ING:

- Coordinate and manage the manual and automated testing, defect tracking, reporting.
- Creating, Reviewing, approving and maintaining test plans, scenarios, scripts or procedures and test Cases (**HP-Mercury Quality Center- ALM**).
- Responsible for the analysis, reporting and communication of test results on all assigned projects, including outstanding defects and test status.
- Weekly test progress and status meeting (including defect status) and daily stand up (**Scrum/Agile**).
- Coordinate and manage the manual and automated testing, defect tracking, reporting.
- Collaborate with Release Management, Configuration Management for Version and Environment Management
- Manage the close collaboration between Test Engineers and Requirement Engineering (Backlog/User stories and it's coverage with test cases)
- Clarify requirements and help Analyst to build them plus requirements traceability **ALM**

1 May 2013 – 30 September 2013**Test Manager****IPC**

International Post Corporation is the postal industry's partner company that provides leadership by driving service quality, interoperability and business-critical intelligence, and gives its members an authoritative, independent and collective voice. <http://www.ipc.be>

Activities at IPC:

- Defining Test strategy, create schedules, reports and estimations
- Escalate issues and risks to both; the Project / Program / Release / Asset management organization and the team management.
- Day to day follow up (plans, monitors and controls program/project) in terms of scope, quality, milestones, budget, issues, risks, problems,etc.

- Weekly test progress and status meeting (including defect status) and daily stand up (**Scrum/Agile**).
- Check / Review the Test Cases documents.
- Escalate the issues about project requirements (Software, Hardware, Resources) to Project Manager / Sr. Test Manager.
- Act as the single point of contact between Development and Testers.
- Ensure and coordinate that test environments UAT, FAT and test data are available.
- Organize, creation and reviewing (**Prince 2**) of test cases.
- Defect Manager, **defect/issues** registration (**Jira**), communication /escalation /follow up, facilitate defect workflow / Reject defects /review and QA on defects.

5 Jan 2012 – 30 April 2013

Test Analyst/Coordinator

Elmar

Elmar Travel Agency was founded in 1999 and was one of the first agencies on the Internet elmar.nl other brands from Elmar are : vakantiediscounter.nl and vakanties.com

Activities at Elmar:

- Review product and system functional requirements and create test cases to ensure that overall quality is delivered (**CMMI** and **Agile**).
- Definition of the testing strategy and testing process with all stakeholders including scope, definition of quality gates, milestones, schedule and resource requirements
- Definition of the scope of testing within the context of each project release/delivery
- Coordination of development and review of a holistic test strategy and test plans with project management and the relevant stakeholders to capture all of the test phases.
- Estimation metrics for all project testing activities.
- Weekly test progress and status meeting (including defect status).
- Ensuring test case coverage and test case development reflects quality expectations traceable to relevant requirements and functional specifications.
- Identify, analyze, and document all defects **Jira** (software bugs) and operational characteristics that are inconsistent with stated requirements and design specifications.
- Web testing Sauce Labs, **SoapUI** .
- Performance Testing (**Jmeter**).
- Smart phones and tablets testing (**Android, Robotium**)
- Identify (create) test data, requirements, features from Product owner and information Analyst (creation of business flow Visio and SmartDraw).
- Use of **MySQL** to create test data, update and solve issues on database level.
- Responsible for the analysis, reporting and communication of test results on all assigned projects, including outstanding defects and test status.
- Assist in evaluating product and application defects reported by customers and make recommendations for their correction.
- Creation of automated test cases (**BDD**) and scripts using **Selenium-IDE & RC, Fitnesse (Java)** and **shell scripting**.
- Test planning and Coordination, for new features, test estimation and risk analyses.
- Work together with developers (**Java, shell scripting, Maven, Jenkins, Git, Bamboo**) using **Scrum** methodology and **Continuous Integration** in definition of functional and non-functional requirements, bug resolution/fixes, test cases creation, estimation and follow up of development work.
- Implementation and suggestion of new technologies: **Cucumber (Ruby)**

1 June 2010 – 30 December 2011**Test Coordinator-Analyst, Capgemini - ING Bank**

Working for ING Bank located in Amsterdam in the Operations and IT department (payments) for the **SEPA** project (Single Euro Payments Area).

Activities at ING Bank:

- Creating, Reviewing, approving and maintaining test plans, scenarios, scripts or procedures and test Cases (**Mercury Quality Center**).
- Organization and coordination of all test activities for the project/program or asset taking all stakeholders and release calendar into account.
- Use of UML techniques to achieve best quality of the product;
- Managing all testing activities (test preparation, Design, execution and closure) for all test levels and test types.
- Review business information documents and proactively give inputs and improvements in the documentation created by Information/business Analyst.
- Review and approve test schedules or strategies in accordance with project scope or delivery dates.
- Estimation of test effort and define the planning.
- Definition and execution of the test strategy.
- Participate in product design reviews to provide input on functional and non-functional requirements (**Caliber**), product designs, schedules, or potential programs.
- Functional (System) and Application testing of the new software versions.
- Web application testing, using **xml Spy** and **TOAD**.
- Understanding of functional descriptions and writing of test scenarios, test scripts.
- Maintenance and execution of test in SAT, FAT, UAT, PRD (test environments).
- Executing of functional acceptance, system & integration tests, generation of report on test execution.
- Log defects/issues, follow up and achieve resolution (ownership) of defects with developers (3rd-line), analysts and users.
- Create maintain documentation (Sharepoint) and procedures using **Waterfall** mixed with **Iterative** methodology.
- Involved in functional acceptance test, regression, integration, performance and load testing.

1 Sept 2009 – 31 May 2010**Test Analyst****NovaBase- Social Security**

Working for NovaBase, providing consultancy expertise to his client the Social Security department. The Social Security provides social protection, social insurance, income maintenance and other services (medical care, aspects of social work and even industrial relations.)

Activities at Social Security:

- Testing of new releases of the financial software module, Regression and Patch testing in FAT, UAT and Pre-Production environments.
- Coordination and Coaching of team members.
- Coordinate user acceptance test UAT, SAT, Pre-Production.

- Definition of the overall test approach for end-to-end application solutions and manage the execution of the testing. Including; Unit, System Integration, User Acceptance, Pre-Production, Volume, Regression, Penetration and Operational and Functional Acceptance test
- Define the correct and appropriate utilization of testing tools for each project or Program.
- Functional and Application testing of the new software versions.
- Establish and maintain documentation (PVCS Version Manager) and procedures using **RUP** methodology.
- Manage and define QA procedures in a constantly changing environment, in close cooperation with developers and analysts using **Prince 2** methodology.
- Participate on project teams to support team initiatives, including User Acceptance Testing.
- Automate day to day task using Unix shell scripting, regression testing (Compuware- **TestPartner**).
- Execute Load/stress tests (Compuware **QA Load**).
- Create/maintain/improve Test Cases (**QA Director**), Uses Cases, test plans, test scripts.
- Registry, track, follow up and generate reports of defects/bugs (Compuware **Track Record** and **Bugzilla**).
- Create (documentation), execute test Scripts using tools/techniques such **shell scripting**, **PL-SQL (data warehouse)** queries and VB scripts.
- Technical analyses of the current Business Rules, Uses Cases, Technical, Functional Requirements and provide improvements.
- Web testing of new releases or patches involving functionality testing, Load testing (**NeoLoad** peak of number of users), compatibility testing and web services functional testing (**SoapUI**)

1 Sept 2008 – 15 July 2009 **Test Specialist - Cards business analyst, Accenture-Shell**

Working for Accenture, providing consultancy expertise to his client Shell-Rotterdam.

Shell is a global group of energy and petrochemicals companies, with around 102,000 employees in more than 100 countries and territories.

Shell provides a Retail-Cards service for private and business use worldwide, having a different working structure for each country.

Activities at Shell:

- Testing of new releases, Regression and Patch testing in FAT, UAT and Pre-Production environments.
- Functional and Application testing.
- Define and guard test scope and test types;
- 2nd line support of incidents (HP **ServiceCenter** ITIL methodology), Problem investigation and Management;
- Establish and maintain documentation (PVCS Version Manager) and procedures using **Agile** methodology .
- Create/maintain/improve Test Cases, Uses Cases, Test Scripts.
- Analyzes identified problems; determines appropriate escalation paths; and escalates identified problems to appropriate technical personnel (Technical Support, Database Administrator or Application Development, Tandem Team...).
- Support Shell Card Business department division deal with issues across a wide range of technologies such as Systems, Relational Databases, Servers and many different environments including Windows, Unix, Linux;
- Perform **SQL** queries on databases and **Unix scripts** to troubleshoot production issues (**data warehouse**);

- Cross references business processes with user application/system capabilities and works with business personnel to develop application use expertise and solutions for problems.
- Participating in projects to identify possible technical issues before building and implementation.
- Control and management of the executed tests (**HP Quality Center**).
- Registry of the defects/bugs and follow up of the resolution via new versions or patches (**HP Test Director**)

15 Nov 2007 – 15 July 2008

Application Support Specialist/Tester, Fortis Bank

Working for ForMetis providing expertise as consultant to his client Fortis Bank, main activities are testing the insurance application that stores and manages all type of client insurances provided by this bank.

Activities at Fortis Bank:

- 2nd line support (**Remedy ARS**-ITIL tool) of the developed Software; insurance area Fortis ARS Verzekeringen;
- Deliver technical support in all areas of the ForMetis product (content management software);
- Planning and managing releases and changes using **Prince 2** methodology;
- Create and maintain knowledge base entries and documentation (TortoiseSVN).
- Participate in new product release review and QC (quality control) activities.
- Create viable specifications for the systems development initiative, reporting on and recommending the best approach for the rationalization, integration and deployment of systems infrastructure.
- Perform **SQL** queries on databases and **Unix** scripts to troubleshoot production issues;
- Look into possible improvements in the Fortis infrastructure and existent software (development of SQL queries for databases (**data warehouse**), restructure/analyses work Flow).
- Unit testing of developed applications.
- Create Test scripts and Test cases ->**QA Director** (compuware) and define various test scenarios and Test plans.
- Execute integration, functional tests and developed/maintain necessary documentation.
- Review and present changes in the business rules and functional specifications using **Agile** methodology.
- Execute black box/functional application testing of the ForMetis application running on Fortis Bank (bug fix, new releases, regression testing (**HP WinRunner**), stress/load-> **HP LoadRuner**, performance testing).
- Creation of Test reports for stakeholders.
- Management of service catalogues, SLA's with providers, service delivery (availability, continuity, capacity, asset refresh), service improvements and cost savings, sustaining activities and the relevant cost models;
- Control and follow up of bugs and defects (**HP TestDirector**) and weekly defect reports.

15 March 2007 – 24 August 2007

Application/Functional Support Analyst, ING BANK

ING Bank is a financial institution of Dutch origin offering banking, insurance and investment management services. Presence in over 40 countries worldwide ING is the tenth-largest company in the world.

Activities at ING Bank Netherlands (CCRM -> Corporate Credit Risk Management):

- 2nd line support (ARS tool-ITIL) of the Corporate Credit Risk Management Infrastructure;
- Managing the Ops&IT SLA agreements;
- Analyzes identified problems; determines appropriate escalation paths; and escalates identified problems to appropriate technical personnel (Technical Support, Database Administrator or Application Development).
- Monitor and maintain system performance utilizing variety of metrics and monitoring tools;
- Establish and maintain documentation and procedures;
- Support bank department divisions deal with issues across a wide range of technologies such as Systems, Relational Databases (**Oracle, Sybase**), **XML, MQ Series**, Servers, Websphere and many different environments including Windows, **Unix**, Linux;
- Perform **SQL** queries on databases and Unix scripts to troubleshoot production issues;
- Cross references business processes with end user application/system capabilities and works with business personnel to develop application use expertise.
- Analyze, configure and enhance tools used for quality assurance, defect tracking and source code management for teams within the organization;
- Participating in projects to identify possible technical issues before building and implementation;
- Monitoring the production environment;
- Reporting on production performance and availability of the applications and environment;
- Defining and managing the technical acceptance criteria for the projects and IT development;
- Planning and managing releases and changes;
- Applying operational changes to the production environment;

15 March 2006 – 14 March 2007 Application Support Analyst/ Tester, RaboBank International

Rabobank International (Netherlands) is the Rabobank Group wholesale and investment banking operation, the organization is among the world's fifteen largest financial institutions.

Activities at Rabobank:

- 2nd line support (Remdy-ARS) of Strategic Message Bus Architecture and other System Integration solutions or departments such as Calypso, Kondor using **AGILE** methodology;
- Analysis of incidents/problems and providing possible solutions (include gathering failure information, reproducing problems on UAT & Pre-Production environment and working with development team);
- Support bank department divisions deal with issues across a wide range of technologies such as Systems, Relational Databases, **XML, MQ Series**, Servers and many different environments including Windows, Unix, Linux;
 - Planning releases and changes;
 - Create test scripts in order to verify correctness for unit tests;
 - Support chain and DR (disaster-recovery) testing;
 - Deliver detailed procedures for support, monitoring and implementation of supported applications on (production) platforms;
 - Execute or create test plans, regression, stress/load and functional tests.
 - Involved in the creation of detailed test specifications that define various test scenarios.
- Unit testing of developed applications.
- Develop **UNIX shell scripts** and **SQL** queries (databases) in order to enhance, troubleshoot and monitor the systems.
- Testing upgrades of software, including underlying OS, DB, tools, etc.
- Support all systems/applications on a 24x7 basis (via remote support- on call/ stand by).

IT SKILLS

TOOL	Years of experience	TOOL	Years of experience
Unix	15	RoutingProtocols-TCP/IP	2
PL-SQL	10	Pascal	2
ASP	2	ShellScripting	4
XML	10	MessagingQueuing	1
C++	4	Websphere	1
XMLSpy	4	ITIL	9
Caliber	1	SharePoint	2
Java	8	QualityCenter	5
Ruby	3	TestDirector	1,5
ServiceCentre	4	WinRunner	1,5
MicrosoftExcel	13	LoadRunner	1,5
MicrosoftPowerPoint	15	ConverterPro	2
Microsoft-Office	15	QADirector	2
Microsoft-Windows-XP	6	TestPartner	2
PVCSVersionManager	2	TrackRecord	3
CVS	4	QALoad	4
TotalComander	3	WinSQL	5
SoapUI	5	MicrosoftSQLServer2005	4
DefectManager	1	Vmware	3
NeoLoad	1	Jira	8
VisualBasic	3	Toad	4
RationalClearQuest	1	OracleSQLDeveloper	4
Tandem	1	TortoiseSVN	2
JMeter	3	EasyVista	1
Fitnessse	3	ServiceDeskPlus	2
Remedy	5	BugZilla	3
Maven	4	Selenium	6
Bamboo	2	SpiraTest	1
Balsamiq	2	VisionProject	1
SmartDraw	2	Quick Test Pro	1
IBM- Rational Quality Manager	2	WinSCP	1
Jenkins	6	Intellij IDEA	8