

Roberto Quaranta

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Personal statement

I am an experienced Java/J2EE Senior Engineer with several years in the commercial IT industry including the: mobile, telecommunications and finance industries. Throughout my career I have built up good Java programming skills including OO design and programming whilst simultaneously developing analytical, design and problem solving skills. I have great passion for software backend, cloud architecture and I enjoy staying tuned with the most recent trends in the software area.

Key Skills

Languages	Java 8 since 3 years, Java 7 and JEE both for 10 years ago, C for 2 years, VB for a few months. I'm learning Golang
Ide & Tools	Intellij, Eclipse. Suite Atlassian (jira, jira service management, confluence, Scriptrunner sdlc, automation and integration with Jenkins)
Operating Systems	Linux windows10
Modeling tools	UML and DrawIO
Databases	Oracle, Postgres
Versioning tools	Git, Svn
Containerization	Dockers, kubernetes, OpenShift
Architectures	Micro-services (Spring cloud-spring boot for 2 years, Vertx for 1 year) SOA for 3 years Monolithic most of past time
Compiling tools	Maven, ant
Testing	Junit (experience 5 years) Mockito (experience 3 years) TDD (experience 3 years) Selenium (experience for one month)
Caching	Apache Ignite for 1 year
Application Server	Tomcat Jetty Jboss

	Oracle Weblogic
Logging	ELK stack
CI/CD	With tools Jira, GitFlow and Jenkins

Employment History

Java Senior Backend developer, freelance “Unicredit Bank”, remote from Milan

(From November 2022 – to now)

Achievements and responsibilities:

- Writing analysis and architectural documentations
- Design software in java, linux scripts, Kubernetes, Devops in the area of financial risk management
- migration of on premises application to cloud using kubernetes and configuring pods .

Key Project:

I work in the field of financial risk management writing programs that run during the night for elaboration of data acquired (of stock and other financial assets) during the previous trading day. I use the Java 11 version and a product CA Cawa for software automation.

Java Senior Backend developer, freelance with Herzum on customer “Consorzio Comuni Bolzano”, remote from Milan

(From July 2021 – to November 2022)

Achievements and responsibilities:

- Writing analysis and architectural documentations
- Design microservice based architecture and coding in java 17

Key Project:

I work on a project starting from scratch for public administration, for the workflow processing of documentations and certificates of end users (private citizens and companies). I currently use these stack technologies: Java architecture based on microservices with Spring Boot, Istio, Kubernetes, Elk stack, Rest and Soap services, Keycloak authentication and authorization, Java 17

Java Senior Backend developer, freelance with SIA, Milan

(From July 2020 – to July 2021)

Achievements and responsibilities:

- Design architectures and coding writing in java 8
- Optimization of performances
- Debugging and Problem solving

Key Projects:

- I work on a core distributed architecture that enables thirdy actors to write and execute their java based workflows processing file exchanged among banks . The project is in the area of open banking platforms.
I currently use these stack technologies: java 8, Vertx, Gridgain(Ignite), Consul, Vault, OpenShift, Jira, Git, Grafana, Jmeter, Jenkins, Jaeger, Kibana and Elasticsearch (ELK stack) for logging, Junit and Mockito

Java Architect, freelance with FaiService, Milan

(End of February 2020 – June 2020)

Achievements and responsibilities:

- Design architectures and coding writing in java 8/10.
- Debugging and Problem solving
- Agile methodology

Key Projects:

I work on a Java 8/10 microservices based platform for buying services and devices offered by FaiService to commercial transportation systems. I use the following technologies: IntelliJ, Linux, Jhipster and SpringBoot, JPA, MSsql DB, Java8 and 10, Rest services, swagger, Jms queue, Jira, Jenkins, Git, Slack, Liquibase, Git

Java Architect, freelance with Unicredit Bank, Milan

(September 2019 – February)

Achievements and responsibilities:

- Collecting functional requirements from customers
- Design architectures and coding writing.
- Overview of operations deployments to production servers
- Debugging and Problem solving
- Mentor for junior developers

Key Projects:

- I work on a CRM for backend side java 1.8, Spring , Hibernate

Java Architect, Business Changers srl, Milan

(May 2019 – September 2019)

Achievements and responsibilities:

- Collecting functional requirements from customers
- Design architectures and coding writing.
- Overview of operations deployments to production servers
- Debugging and Problem solving

- Mentor for junior developers
- Writing technical analysis documentation

Key Projects:

- I worked for a public administration's project based on front-end, back-end, jquery, java 1.7, Spring , Hibernate

Senior Consultant, Reply, Milan

(September 2001 – April 2019)

Achievements and responsibilities:

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- Collecting functional requirements from customers
- Valuation of required times to develop the product
- Design architectures and coding writing.
- Overview of operations deployments to production servers
- Software validation with tools like Cast
- Mentor for junior developers
- Debugging and Problem solving
- Writing technical documents
- managing little group of developers
- development of technical and relational skills
- customer and project management skills.
- learnt to manage stressful workloads

Key Projects:

- For customer Fineco I worked on a migration project from Google Search Appliance based search engine to a Elasticsearch based search engine. I used the following technologies: java8, Elasticsearch, Docker, Jboss, Maven, Spring MVC
- Design and development of backend services for dematerialization (virtualization) of credit cards issued by Nexi. The context of the projects are NFC mobile and HCE payments. These are the used technologies: java1.6, Spring data access integration layer, Oracle database, Soa OSB, and Weblogic Application Server. I design both Soap and Restful services. I face architectural issues and security problems with technologies like ssl, authentication, encryption and signing. Besides, I configured the BPM orchestrator for the Oracle Service Bus. I use Oracle Service Bus version 11gR1
- Development of promotional phone recharge tools (made of frontend and backend) for H3G-WIND's customers. These are the used technologies: html, jquery, jsp, java 1.6, spring, tomcat, Git versioning, oracle database
- Development of a tool made of frontend and backend for provisioning of Vodafone booster. These are the used technologies: jsf, jquery, java1.6, maven, Soap services, spring aop, jms queues
- Analysis and realization of an open source mobile mail solution (client + mail gateway) for Wind operator. These are the used technologies: java 1.6 for server, j2me for client with Sun LWUIT framework modified for project's needs, SMTP, IMAP and POP protocol, LDAP by Critical Path. In this project I led a team of 3 persons, choosing the architecture, making a fundamental decision regarding

the choice of LWUIT as framework and how to customize it, evaluation of costs. The project lasted 5 months.

Senior Software Engineer, Nokia Italia Spa, Milan

(November 1999 – August 2001)

Achievements and responsibilities:

- Collecting functional requirements from customers.
- Make a gross valuation of required times to develop the products
- Design architectures and coding writing.
- Overview of operations deployments to production servers
- Mentor for junior developers
- Debugging and Problem solving
- Writing technical documents

Key Projects:

- Development of Wap services with Java, XML, and connection to external databases.
- Design of the backend architecture for accessing Wap services
- GPRS billing system: development of an ASN.1 encoder in C language on Unix machine for collecting CDR data from networks' equipment and integrating Telefonica's internal billing systems. In this project I led a team of 3 developers and 1 tester. My responsibilities were: talking to customers, collecting requirements, organizing a team, choosing people, establishing deadlines and goals, software architecture definition, writing documentation. The project lasted 3 months

Second Level Support Engineer, SpazioZeroUno Spa, Rome

(April 1999 – November 1999)

Achievements and responsibilities:

- Development of software demo products for mobile services
- Management and configuration of the architecture developed for mobile service
- Answer to problems and give support to the group involved in first level support
- Key Technology used:
- Internet products like Netscape Enterprise Server, Netscape Proxy Server
- Wap Gateway, Dns configurations and Netscape Directory Server
- Script in Perl language for getting external web sites' contents and publishing services in WML language

System Engineer, Gepin Spa, Turin

(July 1996 – April 1999)

Achievements and responsibilities:

- Development of software tool for automation the interaction with Reflection
- Management and configuration of devices. Installation of new products.
- Answer to problems and give support to internal customer's employees on information technology matter

Key Projects:

- I was a system engineer in charge of Tim customer management, updating their internal information technology infrastructure. I managed the activities of few people on various problems and issues of customer's information technology systems

Key Technology used:

- Multiprotocol Token Ring with IP and IPX as network protocol, Lan Ethernet with IP protocol, building backbone with ATM technique and mechanism of Lan Emulation
- Networks devices such router Cisco 2500 and 7500, active Hubs 3Com, Switch ATM, gateway Sdlc and X25 for talking to external databases, Isdn, demultiplexer for PCM flows at 2 MB
- Operating systems: Windows NT 4.0 Workstation and Server, Windows 95 and 3.11, Novell Netware for a contact center. I managed technical issues coming from the contact center
- Applicative packages configuration: Reflection, 3270 Emulation, SNA Server, Sap, Netscape, and Outlook.

Software Developer freelance, Telecom Italia Lab, Turin

(January 1995 – July 1996)

Achievements and responsibilities:

Taking part to software development projects

Key Projects:

- Development of an automatic testing tool for telephone exchanges manufactured by Italtel, Ericsson, Alcatel
- Development of software tool for Signal Layer in communication protocols for ATM network

Key Technology used:

- C language and Unix operating system

Technical Trainer freelance, FCA, Turin

(July 1992 – December 1994)

Achievements and responsibilities:

Trained new employees on electrical and PLC (industrial automation) subjects, tutor in laboratory, and tutor in the factory plants during their stage periods. I trained new employees on electrical and PLC (industrial automation) subjects, tutor in the laboratory, and tutor in the factory plants during their stage periods.

Education

Polytechnic of Turin

(October 1985 – July 1992)

Master degree in Electronic Engineering

Final thesis: Design, Development of software tools for the quantitative and qualitative simulation of industrial bus protocols

The thesis regarded the development of software tools developed in C language for the simulator of bus protocols. The input to the simulator was a classical industrial bus interfaced with external entities and described by a meta file containing the configuration of the scenario under analysis. I used a lex and yacc tool for parsing the file in input and then an engine for the simulation based on the state machine; a last software module furnished the output of the analysis concerning quantitative and qualitative measurements about the rightness of the configuration.

Hobbies & Interests

Economy, Finance, Cycling, Sailing, following some online courses of Stanford University, financial quantitative programming with python

References

References are available upon request.