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Birth date 21/10/1993

Nationality Romanian

Summary

Experienced Full-Stack Software Engineer with 8+ years of experience designing, developing, and deploying scalable software solutions. Skilled in front-end and back-end development, mobile development, software design and architecture, UX/UI design, DevOps, microservices, cloud environments and databases. Passionate about problem-solving, algorithms and data structures, optimizing performance, and delivering innovative solutions. Enthusiastic and curious to explore new technologies to drive innovation and enhance operational efficiency. Highly organized and adaptable, with a proven ability to prioritize tasks and meet deadlines effectively. Experienced in all aspects of the software development lifecycle and end-to-end project management, from analysis to development, tests and delivery.

Skills

- Analysis, design and implementation of software solutions
- Software design and architecture
- Front-end development & UX/UI design
- Back-end development
- Mobile development
- Microservices & REST API & SOAP design and implementation
- Design Patterns & EIP
- DevOps & CI/CD & Cloud environments
- Database design
- Data structures, algorithms & problem solving
- Scrum & Agile methodology

Tech stack

Programming languages:

• Java • JavaScript/Typescript • C/C++ • Python • Kotlin • Swift

Front-end frameworks

• ReactJS • Angular • VueJs • AngularJS • jQuery • Bootstrap • Material Design • CSS • HTML

Back-end frameworks

• Spring Boot & MVC & Cloud • Java EE • NodeJS/ExpressJS/Fastify • Flask python

Mobile development

• IOS (Swift) • Android (Java/Kotlin)

Database

• PostgreSQL • OracleDB • MySQL • MongoDB • JPA • Hibernate • H2 • SQLite • SQL

DevOps & CI/CD

• GIT • Jenkins • Nexus • Gitlab • Github

Cloud environments

• Docker • Kubernetes • AWS • GCP • Heroku

Tests

• Cypress • Puppeteer • Junit • Mocha • Chai

Agile methodology

• Jira • Sprint • Kanban • Scrum • Planning • Stand-up

Work Experience

Full-Stack Software Engineer Freelance

January 2025 - Today

- Providing software development and consulting services.

Full-Stack Software Engineer QooA Srl

March 2022 - December 2024

- Analysis, design, architecture and implementation of software solutions using Agile methodology
- Back-end development
- Front-end development & UX/UI design
- Microservice architectures, REST and SOAP development
- DevOps & CI/CD

Responsible for all the phases of the software development lifecycle of multiple B2B and B2C projects, starting from analysis to design, implementation, testing and delivery. Author of the JavaScript library *pp-interpreter-js* (a JavaScript interpreter for PassProdotti language) and several other internal libraries. I developed the PASS suite and all the other B2B and B2C web apps, writing both the front-end and the back-end. I also built Microservices architectures, REST and SOAP services to connect the company with the outside world (brokers, partners, clients, etc.). For DevOps I used AWS as cloud provider and used Jenkins pipelines and Nexus to automate the builds, the tests and the release of the software. Finally, I also built software components to automate the internal processes of the company. My daily tasks were implementing new features, maintaining existing software, bug fixes, creating test suites (E2E, integration and JUNIT tests), analysis of requirements, direct contact with the stakeholders, support for the team and for the various actors. Tech stack:

Front-end:	• JavaScript/TypeScript • ReactJS • Angular JS • Angular • Cypress & Mocha • HTML/CSS • Material design • Bootstrap • Adobe
Back-end:	• Java • Spring Boot & MVC • NodeJS • JavaScript • Microservices & REST & SOAP
Database:	• MongoDB • Oracle • Redis
DevOps & CI/CD:	• AWS • Docker • Kubernetes • Jenkins • Git & Gitlab
Management:	• Jira • Confluence • Slack • MS Teams

Software engineer**December 2021 - February 2022****Generali Business Solutions**

Back-end software engineer at Generali Business Solutions, the IT company of the Generali insurance group, the largest Italian insurance group. Tech stack:

• Java • Spring Boot • Docker • Kubernetes • Microservices • AWS

Freelancer**October 2021 - December 2021****University of Verona**

Development of a Dapp (decentralized application) that interacts with the *Hotmoka* blockchain and the *Hotwallet* wallet. Tech stack:

• Java • Hotmoka • Blockchain • JavaScript • VueJS

Full-Stack software engineer**January 2019 – December 2021****HRM Group**

- Analysis, design, architecture and implementation of software solutions using Agile methodology
- Back-end development
- Front-end development & UX/UI design
- Microservice architectures, REST and SOAP development
- DevOps & CI/CD

IT Consultant at *Cattolica Assicurazioni*, one of the largest Italian insurance companies. Responsible for all the phases of the software development lifecycle of multiple B2B and B2C projects, starting from analysis to design, implementation, testing and delivery. I developed the PASS suite and all the other B2B and B2C web apps, writing both the front-end and the back-end. I also built Microservices architectures, REST and SOAP services to connect the company with the outside world (brokers, partners, clients, etc.). For DevOps I used AWS as cloud provider and used Jenkins pipelines and Nexus to automate the builds, the tests and the release of the software. Finally, I also built software components to automate the internal processes of the company. My daily tasks were implementing new features, maintaining existing software, bug fixes, creating test suites (E2E, integration and JUNIT tests), analysis of requirements, direct contact with the stakeholders, support for the team and for the various actors. Tech stack:

Front-end:	• JavaScript/TypeScript • ReactJS • Angular JS • Angular • Cypress & Mocha • HTML/CSS • Material design • Bootstrap • Adobe
Back-end:	• Java • Spring Boot & MVC • NodeJS • JavaScript • Microservices, REST, SOAP

Database:	• MongoDB • Oracle • Redis
DevOps & CI/CD:	• AWS • Docker • Kubernetes • Jenkins • Git & Gitlab
Management:	• Jira • Confluence • Slack • MS Teams

Software developer Enosocial SRL

December 2017 - December 2018

- Analysis, design and implementation of mobile and web application
- Detailed analysis of the requirements and their implementation
- Direct contact with stakeholders and rapid prototyping solutions

Web and mobile developer for an e-commerce company learning a lot about time management and being very independent with various responsibilities. I developed two mobile applications, one for Android and one for IOS with which customers could purchase wines via their smartphone by choosing from three sources: a virtual catalog of wines, photographing the wine label and applying OCR and lastly by scanning the QR code of the wine bottle (or paper catalog) in the winery or in the fair. In addition, the app allowed the booking of events and rooms offered by the winery. I also developed a web application with Angular that served as a dashboard management for the winery. The main features of the web application were wine, event, room, order and invoice management. Tech stack:

Front-end:	• JavaScript/TypeScript • Angular • Cypress & Mocha • HTML/CSS • Material design • Bootstrap
Mobile:	• IOS/Swift • Android/Java
Management:	• Asana • Slack • Gitlab

Junior Software developer Real T SRL

September 2017 - December 2017

- Analysis, design and implementation of a web application
- Bug fix
- Implementation of new features and software maintenance

IT consultant at *Cattolica Assicurazioni*, one of the largest Italian insurance companies where I did some maintenance of a web application, fixed bugs, implemented new features and added new SOAP services.

The goal was the digitalization of paper documents and their management through the web application.
Tech stack:

- JSF - Java Server Faces
- SOAP
- SVN
- Java

Freelancer

September 2017 - November 2017

University of Verona

Design and development of a departmental Android application for the University of Verona that had some features: exploring the staff/professors/researchers of the university, the existing courses, the projects carried out by the people of the university and the publications made by the professors or researchers and lastly a news section was also created to get the latest news of the university. Tech stack:

- Android
- Java

Internship

March 2017 - July 2017

Julia SRL

- Use of static code analysis tools
- Evaluation of the results
- Preparation of detailed reports
- Development of analysis services (reporting, monitoring app)
- Implementation of a library to reverse-engineer an Android app
- Use of Apache Camel EIP to automate and integrate the developed library into cloud

During this internship I developed a Java library to reverse-engineer an Android app by extracting the Java bytecode to perform static analysis of the app's code through the Julia analyzer (present day integrated in CodeSonar GrammaTech). Furthermore, I used Apache Camel to integrate the library into an existing ActiveMQ queue to automate the static analysis process of the Android code directly from the company's Cloud service. Tech stack:

- Java
- Java Bytecode
- Android
- Apache Camel
- ActiveMQ
- Julia
- ant/ivy/maven

Internship

November 2015 - March 2016

University of Verona

Design and development of an Android application for managing a set of multimedia content (audio, video, images) on SQLite that also allows advanced queries on features extracted from the media. The app's main feature was the extraction of metadata from the audio/video stream content while listening to music or watching a video. Tech stack: • Android • Java • SQLite

Education

Master degree in Computer science and Engineering University of Verona	2015 - 2017
Bachelor Degree in Computer science University of Verona	2012 - 2015
High school diploma Technical Technological Institute Ionita G. Andron (Romania)	2008 - 2012

Languages

- **Romanian:** Mother tongue
- **Italian:** Excellent spoken and written
- **English:** Excellent spoken and written
- **Spanish:** Elementary

Contributions

- **Hotmoka - Open Source contributor**

Open source contributions on Github for the [Hotmoka](#) project, which is a framework written in Java for programming a network of communicating nodes, in a language subset of Java called *Takamaka*. I also developed [Hotexplorer](#) (the object explorer of Hotmoka), [hotweb3](#) (the JavaScript library which interacts with Hotmoka from browser or any JavaScript environment) and [Hotwallet](#) (the browser extension which is basically the wallet of Hotmoka)