Giammarco Boscaro

Full Stack Engineer | Aerospace Engineer

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Profile

I am a **Software Engineer** graduated in **Aerospace Engineering**, with a strong I.T. and technical background thanks to my passion for **programming** and technology, as well as my work experience and education. I have experience in **designing, developing and evolving software** systems from the ground up, managing their entire life-cycles. Furthermore, I am a reliable and meticulous individual oriented to code **quality, flexibility and future extensibility**. I have experience working on professional and personal projects alone, but I can also be a great team member, capable of communicating in a multicultural environment thanks to my knowledge of the English language and the experience acquired abroad during my Erasmus and professional career. Moreover, I spend some of my free time to follow online courses and work on personal projects, continuously expanding my knowledge and improving myself.

Work Experience

Apr 2023 – present
Manching, Germany

Software Engineer, *Airbus Defence and Space GmbH*
- Design and development private cloud hosting tool that provisions and manages VMs instances and simulation environments
- Design and development of simulation lab control center platform to provision simulation environments, control ambient lights and screen matrix in various labs
- Configuration and management of department wide services like **Hashicorp Vault** and **Docker Swarm** clusters
- Web platforms development based on **Angular 13**
- **Microservices** based backend development with **Node.js** and **Python 3** services
- Integration with company cluster through **Proxmox**
- Configuration of **Jenkins** pipelines for quality, testing, automatic releases and **Docker** image builds

Jan 2023 – Mar 2023
Padova, Italy

Java Core Engineer, *Intesa Sanpaolo S.p.A.*
- Development of new batch processes for IsyBank with Java 8 and Spring
- Development of high coverage test suites with JUnit

Nov 2020 – Dec 2022
Padova, Italy

Full Stack Engineer, *I.M. Technologies S.r.l.*
- Front-End development of web applications based on **Angular2+** and Nebular
- Back-End development with **Node.js**, GraphQL (Hasura), OpenAPI, PostgreSQL
- Mobile Apps development with **Flutter** and Firebase
- **Test, build and deploy automation** with Jest, GitLab **CI/CD** pipelines, GitHub Actions
- Extensive usage of **Docker** for development and deployment of applications on the cloud (Digital Ocean)
- Full software life-cycle management (planning, analysis and design, development, release and maintenance)

Jan 2014 – Jul 2014
Padova, Italy

Front-End Developer, *CWBI S.r.l.*
- Development of web applications based on JavaScript (AngularJS, jQuery) and Bootstrap
- Legacy Java system development and maintenance

Education

Sep 2017 – Apr 2020 Padova, Italy	**Master's Degree in Aerospace Engineering,** *Università degli Studi di Padova* • Thesis title: **"HDR imaging techniques applied to a Schlieren set-up for aerodynamics studies"** • Final grade: **110/110**
Sep 2019 – Feb 2020 Manchester, UK	**Erasmus+,** *The University of Manchester* • Erasmus experience for master thesis research • **Schlieren photography** of subsonic and supersonic aerodynamics phenomena in the wind tunnel • Development of algorithms for HDR Schlieren images generation, processing and analysis with **MatLab**
Sep 2014 – Sep 2017 Padova, Italy	**Bachelor's Degree in Aerospace Engineering,** *Università degli Studi di Padova* • Thesis title: **"A study on innovative methods for solid modeling based on volumetric elements"**
Sep 2008 – Jun 2013 Mestre, Italy	**High School Diploma in I.T.,** *I.T.I.S. C. Zuccante*

Skills

JavaScript *Node.js, jQuery, AngularJS*	● ● ● ● ●	**TypeScript** *Angular 2+, Nebular*	● ● ● ● ○
GraphQL *Apollo, Hasura*	● ● ● ● ●	**Automated Testing** *Jest, Flutter, JUnit*	● ● ● ● ○
Flutter *Flutter for iOS and Android*	● ● ● ○ ○	**Java** *Java 6, Java 8*	● ● ○ ○ ○
CI/CD *GitLab Pipelines, GitHub Actions, Jenkins*	● ● ● ● ○	**Docker** *Docker, Docker Compose, Docker Swarm*	● ● ● ● ●
OpenAPI *Swagger, OpenAPI 3*	● ● ● ● ○	**Firebase** *Auth, Realtime, Firestore, Cloud Functions, Storage*	● ● ● ○ ○
SQL *PostgreSQL*	● ● ● ○ ○	**Shell Scripting** *sh, bash*	● ● ● ○ ○
Project Management *Jira, ClickUp, Trello*	● ● ● ○ ○	**Python** *Python 3, FastAPI*	● ● ● ○ ○
Kubernetes	● ● ○ ○ ○	**MatLab**	● ● ● ● ○

Languages

Italian *Native speaker*	**English** *Highly proficient*
German *Beginner*	

Courses and Certifications

Microservices with Node JS and React
Udemy

JavaScript Algorithms and Data Structures Masterclass
Udemy

Complete Python Bootcamp From Zero to Hero in Python
Udemy

Certified Kubernetes Administrator (CKA) with Practice Tests
Udemy

Node JS: Advanced Concepts
Udemy

Introduction to Mongo DB
MongoDB University

Machine Learning A-Z™: Hands-On Python & R In Data Science
Udemy

Docker & Kubernetes: The Practical Guide
Udemy

Design Patterns in JavaScript
Udemy

Clean Code
Udemy

Kubernetes Certified Application Developer (CKAD) with Tests
Udemy

English B2
University of Padova Language Centre

Interests

Landscape and Travel Photography | Civil Aviation | Formula 1 | Personal Finance | Cycling