

Roberto Tassone

Software Engineer

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🛂 Swiss work permit



*"If you are the smartest person in the room,
you are in the wrong room."*


About me

I am a Software Engineer and Web Developer with several years of work experience. I obtained a Master's Degree in Computer Science and Engineering at the University of Calabria, Italy. My professional experience and academic background have enabled me to implement and deploy seamless software efficiently. I am a determined and flexible team player; I can work proactively in a team with a cooperative spirit. Teamwork, I believe, is the key to creating synergy and reaching unbelievable results. I enjoy designing and developing websites as well as desktop and mobile applications. Topics that I am also interested in are cyber security and artificial intelligence. I am always open to new opportunities and I try to improve myself every day by learning and experiencing.

📁 Work Experience

- 2023–Present **Software Engineer**
📍 🌐 AEROSPACE LAB SWITZERLAND SÀRL, Lausanne (VD), Switzerland
📅 June 2023–Present
Activities
Developing and maintaining the ground segment software.
Tools and technologies
Back-end: Java, Quarkus, PostgreSQL
Front-end: Nuxt
Testing and deployment: REST Assured, Kubernetes
Team coordination: Git, GitLab, Teams
- 2021–2023 **Software Engineer**
📍 🌐 PROTON AG, Geneva (GE), Switzerland
📅 August 2021–April 2023
Activities
Developing and maintaining the online payments system.
Implementing REST APIs and integrating them in web/mobile clients.
Reporting, documenting and fixing front-end/back-end software issues.
Tools and technologies
Back-end: PHP, Symfony, MySQL, phpMyAdmin, Redis
Front-end: React, Redux, Sass
Testing: PHPUnit, Docker/Docker-Compose
Team coordination: Git, GitLab, Jira, Confluence, Slack, Zoom

2020–2021 **Software Engineer**

📍  ATINARY TECHNOLOGIES INC., Lausanne (VD), Switzerland

📅 January 2020–August 2021

Activities

Developed and maintained software for the autonomous discovery of new materials.

Developed unit tests and integration tests for code reliability and robustness.

Tools and technologies


Back-end: Python/WSGI, SQLAlchemy, RabbitMQ, PostgreSQL, OpenAPI, OpenAPI Generator, Swagger UI, Prism (Mock API Server)

Front-end: Angular, Javascript, HTML, CSS

Testing and deployment: pytest, tox, GitHub Actions (CI/CD), Docker/Docker-Compose, Nginx, Let's Encrypt (HTTPS Certificates)

Team coordination and telecommuting: Git, GitHub, SSH, Jira, Confluence, Slack, Google Meet, Zoom

2019 **Software Engineer**

📍  xCAL S.R.L., Cosenza (CS), Italy

📅 April–December 2019

Activities

Developed, deployed and maintained Web Platforms using SCRUM methodology.

Configured AWS machines and deployed the products using Docker technology.

Developed and trained Neural Networks to solve image/sound recognition problems.

Tools and technologies

Back-end: Java Spring (Boot, MVC, Security), PostgreSQL, Apache Cassandra, ElasticSearch


Front-end: React, Redux

Testing and deployment: Junit, Docker/Docker-Compose, AWS, Let's Encrypt (HTTPS Certificates)

Machine Learning: Tensorflow, Keras, Auto-Keras

Team coordination: Git, BitBucket, Jira, Confluence, Slack

2018–2019 **Student Internship for Comcast Silicon Valley Innovation Center**

📍  xCAL S.R.L., Cosenza (CS), Italy

📅 September 2018–April 2019

MASTER'S DEGREE INTERNSHIP AT xCAL S.R.L. FOR COMCAST

Designed and implemented a system related to the analysis of security data of IoT (Internet of Things) devices.

Used big data analytics tools to study the threat reports of devices.

The project was composed of the following technologies: Python (scripts for data preprocessing), Apache Cassandra database, Apache Spark framework, Flask micro framework, Jinja2 and Google Chart web library for the web UI.

The system was partially integrated into Comcast's statistics platform.

Education

2016–2019 **Master's Degree in Computer Science & Engineering (Cyber Security Specialization)**

📍  University of Calabria, Rende (CS), Italy

📅 October 2016–April 2019

Course subjects: Software Engineering for real-time systems, Theoretical computer science, Formal Languages, Distributed Systems, Optimization and Performance evaluation, Cryptography and Computer Security, Social Network Analysis, CPU Architecture, Artificial Intelligence, Data Mining

Thesis: *Security of IoT Devices: Big Data Analytics on Threat Reports*

Supervisor: SERGIO FLESCA, Full Professor at DIMES, UNICAL

Tools and technologies: Python, Apache Spark, Apache Cassandra, Flask, Jinja2, Google Chart

📄 Certificate

2011–2015 Bachelor's Degree in Computer Science & Engineering

📍  University of Calabria, Rende (CS), Italy

📅 October 2011–November 2015

Course subjects: Object oriented programming (OOP) languages, Relational Databases and SQL language, Operating Systems, Telecommunications, Electronics, Statistics, Basic CPU Architectures, Software Engineering

Thesis: *Design of a Binning Algorithm based on Hierarchical Clustering*

Supervisor: FABIO FASSETTI, Full Professor at DIMES, UNICAL

Tools and technologies: C++, Bowtie, BLAST

📄 Certificate

Licenses & Certifications

- 2023 Java Design Patterns & SOLID Design Principles
- 2023 Keycloak - Open Source Identity and Access Management
- 2023 ISO 27001 Cybersecurity manager guidelines
- 2023 ISO/IEC 27001:2022. Information Security Management System
- 2023 Complete Vue.js 3 (Inc. Composition API, Vue Router, Vuex)
- 2023 Building Microservices with Quarkus
- 2023 Starting with Quarkus
- 2023 Kubernetes Certified Application Developer (CKAD) with Tests
- 2022 PHP Unit Testing with PHPUnit, Udemy
- 2021 Symfony 5 PHP Framework, Udemy
- 2021 React - The Complete Guide (incl Hooks, React Router, Redux), Udemy
- 2021 Software Security, Coursera
- 2021 C++ For C Programmers, Part A, Coursera
- 2021 C for Everyone: Structured Programming, Coursera
- 2021 Cryptography I, Coursera
- 2021 RabbitMQ: The Complete Guide with Software Architecture Applications, Udemy
- 2020 C for Everyone: Programming Fundamentals, Coursera
- 2016 Trinity College London ISE II Integrated Skills in English - CEFR Level B2

Technical Skills

- Coding Java, Python, PHP, C#, C++
- Frameworks Spring (Boot, MVC, Security), Quarkus, Symfony, .NET
- Web React, Angular, Vue, Nuxt, HTML5, CSS3, Javascript, OpenAPI
- DBMS MySQL, PostgreSQL, SQLite, Redis, H2
- Team Git, GitHub, GitLab, Bitbucket, Kanban, Confluence, Slack, Zoom, Teams
- DevOps GitHub Actions (CI/CD), AWS, Docker, Docker-Compose, Kubernetes, Nginx
- Misc Bash, Make, SSH, RabbitMQ, Arduino, Raspberry Pi, Matlab, Gradle, Maven, ImageAI, VPS, \LaTeX

Soft Skills

- Intrapersonal Focused and goal-oriented. Competent in problem-solving, driven by curiosity, and highly adaptive to various environments. Able to work independently both in and out of the office.
- Social A compatible team member with strong communication skills, including listening attentively and articulating new ideas.

Languages

- English Full professional proficiency
- Italian Native proficiency
- French Elementary proficiency

Interests

- Professional Computer vision, cyber security, back-end development, automation
- Personal Space exploration, rocket science, basketball, cycling, running, video games, movies