

Experience

Vocational

- September 2025 **Lead Software Engineer**, *MIC Customs GmbH*, Linz (Austria)
An international software company developing customs calculation software for international supply chains. *mic-cust.com*
- Leading a 5-people team responsible for the Origin Calculation product for the EU customer (core product of the company), driving the migration from a legacy PL/SQL monolith to a modern, containerized Java platform.
 - Lead the development in Java of Preference Transfer, a new highly-requested feature for multi-tenant enterprise companies in Europe (delivered as a key feature of a multi-millions contract to the major car manufacturer in Europe).
 - Managed object storage via MinIO for internal asset storage across the platform.
- 2024 **Software Engineer**, *MIC Customs GmbH*, Linz (Austria)
Origin Calculation Platform Team. *mic-cust.com*
- Member of a team of twelve high-skilled developers working on the high-performance origin calculation system (leading software for customers in the automotive industry), contributing to the modernization of a legacy PL/SQL-based architecture.
- 2020–2024 **Co-Founder & CTO**, *fyblo*, Milano (Remote)
A Blockchain-based platform that for financial institutions. *fyblo.com*
- We developed a still-unmatched blockchain wallet for financial institutions (check the technical deck on LinkedIn).
 - Coordinating with the business, product and legal areas to align the development with the company goals.
 - In charge of a project selected by the Bank of Italy together with 4 other highly-innovative financial services.
 - Head of 3 senior engineers, coordinating the development of the smart contracts in Solidity, the APIs in Typescript, the frontend in Vue.js/Nuxt, and the AWS infrastructure (including extensive use of S3 for asset storage), with mobile app in Capacitor. Managed infra via Terraform and CI CD with Github Actions & Fastlane (mobile) (sold in November 2025).
- 2018 **Fullstack developer**, *Callmespa*, Milano
Web platform developer: *callmespa.com*
- Main developer for the web ordering platform, developed in PHP that was integrated in a Wordpress platform.
- 2015–2017 **IT Manager**, *Svoltastudenti*, Milano
Manager of IT services for Svoltastudenti, Politecnico di Milano's students' union. More on *svoltastudenti.it*
- Head of six volunteering Software Engineering students, in charge of the IT services of the association (managed web services contracts, devices provisioning and migrating services from Google to Microsoft Office 365).
- 2014–2015 **Web app developer**, *Fiat Chrysler Automobiles*, Torino
Development with a teammate of a survey platform for internal usage (developed in C#/.NET).
- Winner of student competition by *university2business.it*;
 - In charge of the frontend development (JavaScript) and of the authentication service (in C#) based on Kerberos to integrate in company's Microsoft SSO.

Miscellaneous

- 2025-2026 **Co-Founder**, *fatturai.it*
Developed fully with AI an AI-based invoicing agent for the Italian market, in native Swift (iOS)+Typescript (Backend & MCP)
- 2024-2025 **Head of Tech**, *Movimento Drin Drin*
I coordinated the technological development for Drin Drin, a newborn political association which in one year onboarded a staff of more than 500 volunteers, and over 15 thousands donating members.
- 2018-2019 **National Students' Council member**, *Minister of University, Instruction and Research (Italy)*
One of the 30 Italian students who constitute the students advisory board of the minister. Political leader of a 100 students association at Politecnico di Milano.
- 2017 **Content Editor**, *Politecnico di Milano & EIT Digital*, Editor of Recommender Systems MOOC
Setup of a synthetic reader using Watson by IBM Bluemix.
- 2015–2017 **Student representative**, *Politecnico di Milano*, Industrial & Information Engineering School
Also, student representative in the committee against disparities and inequalities in general.

Computer skills

- Programming Java(very good), Kotlin(very good), Node/Javascript/Typescript(very good), Swift(good), Haskell(good), C# + ASP.NET(good), Python(very good), PHP(good), Scheme(basic), C/C++(basic), Erlang(basic).

Database	Good experience in design and development of databases with MySQL, Oracle SQL, and Microsoft SQL Server.
CI	Jenkins(very good), Github Actions(very good), Fastlane(good)
Cloud & Storage	AWS (EC2, S3, Lambda, SQS)(good), MinIO(good), Terraform(good), Docker(very good), Kubernetes(very good), Helm(good)
Build tools	Gradle(very good), Maven(good), Swift Module System(good), Vite(very good), Bun(good), Yarn(very good), Pnpm(very good)
Systems	Experience in Windows OS, MacOS and Linux (i.e. Ubuntu, Ubuntu Server, CentOS, Alpine, etc.).
Miscellaneous	Good knowledge of Microsoft Office's suite and Adobe Creative Cloud tools. Advanced knowledge of Git and \LaTeX . Basic knowledge of KNIME for data mining & analytics. Proficient in web frontend technologies (HTML, XML, CSS).

Education

- 2020–2025 **PhD candidate**, *Logical Methods in Computer Science at TU Wien*, Vienna, Austria
 Details:
 - Thesis on runtime verification of spatio-temporal models, where formal logic-based techniques have been combined with statistical/machine-learning techniques to develop efficient real-time monitoring.
 - Served as the main maintainer of `Moonlight` (a Java-based signal monitor) and main developer of `Webmonitor` (a Kotlin-based web monitor, presented at a flag-ship Software Engineering conference).
 - Supervised a bachelor and a master student throughout their thesis.
 - Delivered several seminars and exercises for the Cyber-physical systems course
- 2012–2019 **Bachelor and Master of Science**, *Computer Science & Engineering - Politecnico di Milano*, Milano, Italy
 Details:
 - Presented a new methodology to guarantee the correct synchronization of software models in the building industry. Main developer of `Topocity` (a open-source Haskell tool) to achieve such sync.
- 2011 **Summer School**, *Computer Programming (C++ basics) at NYU*, New York, USA
- 2007–2012 **High school**, *Classical studies at Liceo Classico M. Galdi*, Cava de' Tirreni, Italy

Languages

Italian	Native speaker	
English	Fluent - C1	Cambridge certification - CAE
German	Entry level - A2.1	Goethe Institut certification for A1

Research

Visits

- 2023–2024 **Research Visitor**, *University of Trieste*, Trieste, Italy
 Data Science and Scientific Computing unit, department of Mathematics and Geosciences.
- 2022 **Research Intern**, *INRIA*, Grenoble, France
 Runtime Verification intern at the Programming Languages laboratory.
- 2018–2019 **Research Intern**, *National Institute of Informatics*, Tokyo, Japan
 Software Engineering intern at the Programming Languages laboratory.

Publications

- 2019–2024 **Publications**, *7 peer-reviewed papers*, FORTE, ASE, MEMOCODE, RV, MODELS, SoSyM
 Published in the areas of runtime verification, spatio-temporal logic, software modeling, and web engineering. Full list: dblp.org/pid/253/6180