

Giandonato Inverso

Software Engineer | Cloud-Native Development | Cybersecurity & AI Enthusiast

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SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C++, Ruby, PHP

Frameworks: Node.js, Express.js, ReactJS, Django, Ruby on Rails, CUDA

Data Science & Analysis: Pandas, Matplotlib, NetworkX

DevOps & Cloud: Linux, Docker, Git, GitHub Actions, GitLab CI, AWS

Cybersecurity: Burp Suite, Nmap, Wireshark, Metasploit, Static and Dynamic Analysis tools, OSINT tools

Databases: PostgreSQL, MySQL, DynamoDB

Languages: Italian (native), English (B2)

PROFESSIONAL EXPERIENCE

Software Engineer | *SGR Compliance*

Lugano, Switzerland | Sep 2024 – Present

Full-stack development of new features to enhance the automation and effectiveness of Anti-Money Laundering screening processes. Delivered functionality deployed to hundreds of enterprise customers across financial sector. Tech stack: Ruby on Rails, Python (Django), ReactJS, PostgreSQL, AWS.

Software Engineer | *University of Milan*

Milan, Italy | Feb 2024 – July 2024

Developed a Python-based DevSecOps methodology for a real proprietary IoT ecosystem, identifying 924 CVEs, 143 CWEs across 15 threat categories, with integrated risk scoring for aggregated vulnerability analysis.

Software Engineer | *University of Parma*

Parma, Italy | May 2022 – Sep 2022

Reengineered a bioinformatics Java-based algorithm into a parallel C++ implementation, leveraging High Performance Computing techniques and AI-based clustering. Achieved up to 90% RAM reduction and 3× speedup on AWS cloud infrastructure.

Web developer | *EDEMPG Comunicazione S.r.l*

Parma, Italy | Feb 2021 – Feb 2022

Led the migration of a mission-critical ERP from a monolithic architecture to microservices for a platform connecting major Italian food companies, and developed RESTful APIs in TypeScript for an HR management system used by a leading Italian retail chain.

Web developer | *Freelancer*

Remote | 2016 – 2022

Freelance software development for 13 client projects, delivering full-stack web solutions ranging from static websites to custom PHP applications.

EDUCATION

University of Milan

Sep 2022 – July 2024

M.Sc. in Computer Science | Final grade: 110/110 cum laude

Milan, Italy

- Relevant coursework: Artificial Intelligence, Software Security, Secure Service-Oriented Architectures, Cyber Risk Management, Biometric Systems, High Performance Computing

University of Parma

Sep 2019 – Oct 2022

B.Sc. in Computer Science | Final grade: 101/110

Parma, Italy

CERTIFICATIONS

Certified Ethical Hacker | *EC-Council*

Dec 2024

Certified Cybersecurity Technician | *EC-Council*

Dec 2023

AWARDS

Algorand BUILD-A-BULL Web3 Hackathon | *1st place and special university prize*

Nov 2023

Competed in a Blockchain and Web3 hackathon organized by the Algorand Foundation, with over 150 teams worldwide. As a team of five university students, we won the \$35,000 first prize in the Interoperability track with Janus, an experimental MVP to improve cross-chain user onboarding and connect Algorand with other blockchains.

Giffoni Innovation Hub @ Techgarage Startup Contest | *special prize*

July 2015

Won the Giffoni Hub Special Prize for Paedagogus Project, a proof of concept for an innovative online tutoring platform, presented during a national competition for high-tech business ideas pitched to investors.