

NICOLAS GUARINI

Computer Science Graduate - Master's Degree Student

✉ web@nicolasguarini.it

🌐 nicolasguarini.it

👤 nicolasguarini

linkedin nicolasguarini

📍 Varese, IT

WORK EXPERIENCE

Junior Software Engineer

⚡ Django Go Kubernetes RabbitMQ NewRelic Ansible Grafana Prometheus DevOps

Elmec Informatica, Varese ↗

📅 Apr 2025 - Current

- Designed and developed an enterprise-grade Service Request management system, featuring a per-client configurable SR catalog, structured ticket generation, and integration with an Ansible-based automation engine for remote task execution across customer networks.
- Developed and optimized backend applications in Django and Go, deployed on a microservices architecture using Kubernetes and Docker.
- Conducted R&D activities within the Innovation team to modernize legacy systems and integrate new technologies into existing workflows.
- Maintained and developed CI/CD pipelines, handling troubleshooting and delivering internal training on DevOps practices and tooling (since February 2026).

Freelance Full-Stack Developer

⚡ Node.js React Python WordPress SEO Figma UI/UX Design

Freelance (Occasional), Varese / Milan ↗

📅 Mar 2019 - Apr 2025

- Developed and redesigned web solutions for small businesses and freelancers, handling everything from design to development, and contributed to ad campaigns;
- Completed 15+ projects that improved clients' online presence, increasing traffic and generating consistent leads.

EDUCATION

Master's Degree in Computer Science

📝 110/110 - 4.0/4.0 GPA

University of Milano-Bicocca ↗

📅 Oct 2023 - Feb 2026

- **Experimental Thesis:** "Innovative Management of Service Requests: From a Distributed Monolith to a Large-Scale Microservices Architecture, with RAG-Enhanced Recommendation System";
- **Recognitions:** Scholarship for merit in AY2024-25;
- **Erasmus+** Exchange at Stockholm University, Sweden;

Bachelor's Degree in Computer Science

📝 107/110 - 3.89/4.00 GPA

University of Insubria ↗

📅 Sep 2020 - Jul 2023

- **Experimental Thesis:** "Blockchain and decentralized file storage for reliable tracking of autovehicle's life";
- **Recognitions:** Scholarship for merit in AY2021-22 and 2022-23;
- **University Tutor** for Programming and Computer Architecture courses, conducting afternoon lectures for 40+ students with strong academic improvements.

PERSONAL PROJECTS (COMPLETE LIST ON MY [GITHUB](#) OR ON MY [WEBSITE](#))

Deep Reinforcement Learning for Autonomous Driving

⚡ Python Deep Reinforcement Learning Autonomous Driving Simulation Git

Literature Review & Experimental Evaluation

👤 nicolasguarini/drl-autonomous-driving-evaluation

- Conducted a literature review and trained three state-of-the-art DRL models across realistic autonomous driving scenarios, designing an evaluation framework and documenting results in a scientific report.

MileChain

⚡ Solidity Next.js Hardhat IPFS Fleek Git

Ethereum dApp

👤 nicolasguarini/milechain

- Decentralized application on Ethereum for tamper-proof recording of vehicle mileage and ownership history, built to counter fraud in the used-car market using IPFS for decentralized storage.

Encryptia

⚡ REST API Cryptography Web Application Git

Full-Stack Platform

👤 nicolasguarini/encryptia

- Platform for text encryption via multiple configurable algorithms, exposing both a web interface for end users and a REST API for developers.