

LUCA DELUIGI

SOFTWARE ENGINEER

GitHub: <https://github.com/ldeluigi>

LinkedIn: <https://www.linkedin.com/in/ldeluigi>

WORK EXPERIENCE

Meravit srl

2024 - Present

Backend Engineer

Designed and developed cloud-oriented distributed systems using AGILE and DevOps methodologies. Built microservices-based architectures inspired by Clean Architecture (Robert C. Martin) for cloud and on-premise deployments.

Co-authored a microservice development framework named after the Clean Architecture.

Designed and implemented microservices integrating with AI capabilities, specifically OpenAI's API.

Utilized a technology stack involving ASP.NET, EF Core, asynchronous messaging, OpenApi, and Flutter.

EDHREC LLC dba Space Cow Media

2023 - Present

Full-Stack Engineer

Led the design and development of open-source backend services for a specialized search engine using Python, Django, PostgreSQL, and Kubernetes.

Maintained and optimized the public-facing web application built with TypeScript, React, and Next.js.

Started as an open-source volunteer contributor and became the lead maintainer of core repositories.

Years of experience with Agentic programming.

University of Bologna

2021 - Present

Contract Lecturer / Teaching Assistant

Software Design and Development (2023 - Present): Provided laboratory guidance and academic support within the Computer Systems Technologies degree program.

Python Tools for Machine Learning (2025 - 2026): Co-authored teaching materials and lesson scripts for the official Edvance MOOC platform.

Algorithms and Data Structures (2021): Conducted laboratory sessions, evaluated examinations, and designed an automated test correction system.

Object Oriented Programming (2022 - 2023): Delivered direct student support during laboratory hours.

C Programming (2022 - 2023, 2026 - Present): Delivered direct student support during laboratory hours and managed exam evaluations.

EasyDesk - Innovative Start-up

2020 - 2024

Backend and DevOps Engineer

Engineered a microservices backend based on Domain-Driven Design (DDD) and Clean Architecture principles using C#, .NET, LINQ, and Rebus.

Built and maintained CI/CD automation pipelines to streamline integration and delivery cycles.

Provided strategic IT consulting for a shared-spaces booking software platform.

Alessandro Serpieri Scientific High School

March 2022 - June 2022

Computer Science Teacher

Taught comprehensive classes covering C, HTML/CSS, SQL, Databases, Networking, and Data Science.

SimpleNetworks - Digital Innovation
Curricular Internship

October 2018 - March 2019
Santarcangelo di Romagna, RN

Developed a web application for healthcare management using Angular and Docker.
Conducted a compliance and legal requirements study for a JavaScript-based electronic invoice generator.

EDUCATION

Alma Mater Studiorum - University of Bologna 2019 - 2024
Master's Degree in Computer Science and Engineering
Thesis: *Design and implementation of a scalable domain specific language foundation for ScaFi with Scala 3*
Grade: 110/110 Summa Cum Laude (March 2024)

Alma Mater Studiorum - University of Bologna 2016 - 2019
Bachelor's Degree in Engineering and Computer Science
Thesis: *Analysis and implementation of the Flocking model with FLAME GPU*
Grade: 110/110 Summa Cum Laude (October 2019)

Alessandro Serpieri Scientific High School 2011 - 2016
High School Diploma in Applied Sciences
Grade: 100/100 (July 2016)

CERTIFICATIONS AND AWARDS

University of Bologna Honor Student Award A.Y. 2017/2018
English Language Certifications: Cambridge English: First (FCE), Preliminary (PET) 2014 - 2015
IT Certifications: ICDL

TECHNICAL KNOWLEDGE

Engineering:	Cloud Architectures, Microservices, Clean Architecture, Domain Driven Design (DDD). Higher Order Functional Programming, Reactive, Agent-Oriented, and Logic Programming. DevOps Engineering, CI/CD Automation.
Languages (Proficient):	C#, Scala, Python, Bash, SQL, JavaScript, TypeScript.
Languages (Familiar):	Java, C, Dart, TSQL, CUDA C.
Technologies & Tools:	Docker, Kubernetes, .NET/ASP.NET Core, EF Core, Django, React, Next.js, Angular. Build automation (Gradle, SBT, dotnet). GitHub Copilot & Agentic Coding. Visual Studio Code, Visual Studio, IntelliJ IDEA.

OTHER SKILLS

Languages: Italian (Native), English (B2), Spanish (Basic).

Soft Skills: Technical Leadership, Team Management, Problem Solving, Project Management (PM-BOK).

Methodologies: Agile (Scrum, Kanban), Test-Driven Development (TDD).