

# Stefano Quartuccio

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## SUMMARY

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Master's student in Data Science with a strong focus on Artificial Intelligence and Large Language Models. Currently completing a thesis on a RAG-based semantic search engine that includes fine-tuning a 20-billion-parameter language model. Passionate about building robust, efficient, and cutting-edge solutions that combine academic rigor with hands-on software engineering.

Experienced in backend development at Elibra srl., working primarily with Java (8 and 11) and Spring Boot to build and maintain modular services; I follow CI/CD workflows for automated builds and deployments and adopt Test-Driven Development (TDD) with unit and integration tests to ensure code quality.

## WORK EXPERIENCE

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### Software Engineer, Elibra srl.

May 2022 – present / Italy

- Legal-tech product company building software that digitizes the legal profession alongside clients, spanning Knowledge Management, advanced Business Intelligence & Reporting, workflow automation, integrated accounting, PCT e-filing, and more.
- Backend development and maintenance within a product company organized in Agile (Scrum) teams.
- Daily use of Spring Boot and Maven; primary development in Java 8 and Java 11 for modular microservices in the Elibra product suite.
- Strong focus on Test-Driven Development (TDD) and automated testing (unit and integration tests), using test frameworks and libraries to keep code coverage and reliability high.
- Follow and contribute to CI/CD workflows (automated builds, pipelines, and deployments) to enable continuous delivery and a reproducible release process.
- Full SDLC ownership including Git-based workflows, algorithmic analysis, debugging, and deployment activities.
- Managed infrastructure automation with Ansible playbooks and maintained reproducible scenario-based environments for development and testing.
- Contribute to the design, development and maintenance of Elibra modules; collaborate with cross-functional teams to integrate features into the platform.

### Junior Web Developer, Rc-info srl.

Apr 2021 – Apr 2022 / Italy

Supported company projects with full-stack web development, evolving features across client and server components.

### iOS/Android Junior Developer, PlayTime Mobile ®srl.

Feb 2020 – Aug 2020 / Italy

Collaborated on cross-platform mobile application development during internship.

### Junior Developer (Internship), Link-up srl.

Dec 2018 – Dec 2019 / Italy

Supported software development activities while learning company IT processes.

## PROJECTS

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- **Master's Thesis – Enhancing Legal Workflows: Design and Evaluation of a RAG-Based Semantic Search Engine:** Built an end-to-end legal RAG platform combining multilingual E5 embeddings, vector database retrieval, and a GPT-OSS 20B LLM fine-tuned with LoRA on synthetic,

human-validated datasets; delivered higher accuracy than baseline systems and outlined safeguards for privacy-preserving deployments.

- [Fine-tuned GPT-OSS-20B \(Q5 extunderscore0\)](#): Publicly released GGUF quantized on Q5\_0 enabling legal-domain inference on resource-constrained hardware.

## EDUCATION

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2022 – Oct 2025    Master’s Degree in Data Science, **University of Milano-Bicocca**  
2019 – 2022        Bachelor’s Degree in Informatics, **University of Milano-Bicocca**

## CERTIFICATIONS

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- [Continuous Integration and Continuous Delivery \(CI/CD\)](#) – Coursera
- [Developing AI Applications with Python and Flask](#) – Coursera
- [Bbetween Lingue — English B2](#) – BBetween Lingue

## SKILLS

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Programming Languages	<b>Experienced:</b> Java (8, 11), Python <b>Familiar:</b> JavaScript, PHP, Bash, Scheme
AI / ML Libraries	PyTorch, Scikit-learn, Pandas, NumPy, Hugging Face Transformers, LangChain
AI / ML Concepts	Natural Language Processing, Retrieval-Augmented Generation (RAG), LLM Fine-tuning, Vector Databases, Semantic Search
Frameworks & Tools	Spring Boot, Maven, Git, Docker, CI/CD pipelines (automated builds and releases), Agile (Scrum), Jira
Testing & TDD	TDD, Unit testing, Integration testing, JUnit, Mockito
Languages	<b>Native:</b> Italian <b>Fluent:</b> English

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