

MIKHAIL LAI

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SUMMARY

Software engineer working on systems that have to keep running. Most of what I build ends up in production and stays there: APIs, integrations, backend architecture, and the frontend that makes it usable. I care about code that is right rather than clever. Open to full-time positions and freelance work.

EXPERIENCE

Studio RS S.r.l.

May 2026 – Present

Software Engineer · Retail & grocery software

Pisa, Italy

- Develop and maintain the applications running in supermarket environments: point-of-sale, back-office, and store management systems used daily across retail chains.
- Work on production systems where downtime means checkout lines stop, so reliability and backwards compatibility matter more than novelty.
- Building computer vision in PyTorch that recognises groceries at the checkout and flags suspicious behaviour, a long-term project with a major Italian grocery chain.

Independent

Aug 2023 – Apr 2026

Freelance Software Engineer

Remote

- Delivered projects for clients across Italy, from greenfield builds to maintaining and extending existing codebases.
- Built full-stack accounting platforms and integrated data-driven systems.

PROJECTS

Aegis | *Python, PyTorch* | github.com/madebymlai/aegis

- End-to-end systematic trading platform that carries a strategy from research hypothesis all the way to live execution.
- The same code that validates a strategy in backtesting is the code that trades it live, so what gets tested is exactly what runs.
- Built as a monorepo of bounded contexts with a shared execution kernel, ports and adapters isolating venue integrations, and immutable run manifests for reproducibility.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript

Frameworks & Libraries: Spring Boot, PyTorch, React

Tools & Practices: Git, Docker, REST APIs, Domain-Driven Design

EDUCATION

Università degli Studi di Firenze

Sep 2024 – Dec 2027 (expected)

Bachelor of Science in Computer Science

Florence, Italy