

Nicolò Bertocco

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SUMMARY

Full-Stack Software Engineer capable of owning features end-to-end in web applications. Comfortable moving from state management on the frontend to performing query optimizations. Deeply interested in API architectures and typed programming languages.

EXPERIENCE

Full-Stack Engineer - IT Consultant

Technology Reply

June 2025 - Present, Padua, IT

- Engineered full-stack features within a large Agile team for one of Europe's largest banks, utilizing Java Spring Boot microservices on GCP, PostgreSQL, and TypeScript React microfrontends
- Optimized database table size from ~10.4 GB to ~8 GB (~23% reduction) by implementing aspect-based filtering, eliminating excessive persistence from an unmodifiable global logging library.
- Delivered breaking API changes to a core microservice with zero downtime by designing and executing a backward-compatible migration strategy across dependent services.
- Maintained a legacy project for a high fashion client using TypeScript React, Java Spring Boot and Oracle Database.

Full-Stack Engineer

Workteam

June 2022 - September 2022, Remote

- Engineered a greenfield full-stack integration platform from scratch, leveraging SvelteKit and MongoDB to establish a central hub for defining reusable API connector contracts.
- Performed a comprehensive security audit on the company's main product, a full-stack Angular and Node.js application, identifying and reproducing vulnerabilities such as SQL injection and Cross Site Request Forgery.

Android Engineer - Intern

Cedacri

June 2021 - September 2021, Remote

- Implemented accessibility features in a home banking Kotlin Android app according to European directive UNI EN 301549.
- Created internal documentation for accessible Android development, aligning with the platform's accessibility standards.

Project Coordinator, Help Desk, Blogger

Androidiani

March 2015 - July 2018, Remote

- Authored smartphone and tablet reviews, sponsored articles regarding store promotions.
- Handled customer support on the ticketing system and sales of sponsored content.

PROJECT

Micro Health

github.com/owsky/micro-health · April 2026 - In-development

- Polyglot microservices backend using: Kotlin Spring Boot, C# ASP.NET, TypeScript Node.js, Golang.
- Event-driven, asynchronous communication through RabbitMQ queues.
- React Microfrontends using TypeScript and TanStack Start.
- Infrastructure: fully containerized application with Docker Compose orchestration, OAuth 2.0 authorization with OpenID Connect set through a Keycloak auth server, Apache APISIX gateway as backend entry point.

EDUCATION

Master's Degree in Computer Science

Minor in Artificial Intelligence · University of Padua · Padua, Italy · April 2025 · 110/110 with Honors

- Authored a thesis on cross-domain recommendation leveraging semantic paths from a knowledge graph and neuro-symbolic training.
- Relevant courses: Software Verification, Big Data Computing, Type Theory, Machine Learning, Computer Vision.

Bachelor's Degree in Computer Science

Ca' Foscari - University of Venice · Venice, Italy · September 2022 · 99/110

- Aligned with the curricular internship at Cedacri, wrote a thesis on designing and implementing accessible software solutions.

SKILLS

Languages: TypeScript, JavaScript, Java, Kotlin, C#, Python

Frontend: HTML, CSS, React, Svelte

Backend & Infra: Node.js, Express, Fastify, Spring Boot, ASP.NET, Microservices, Docker, Keycloak, OAuth 2.0, Apache APISIX