

P. Eng. FABIO FERRARI

Senior Full-Stack Developer & Solution Architect

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PROFESSIONAL SUMMARY

Senior Full-Stack Developer and Solution Architect with more than 20 years of experience designing, building and delivering software systems across banking, manufacturing, healthcare and public sector. Deep expertise in Java/Spring and Angular2+/Node.js ecosystems and end-to-end project ownership. Strong track record in managing client relationships and combining technical depth with business awareness. Experienced in technology evaluation and in adapting to new technologies and frameworks to address evolving business and technical requirements.

PROFESSIONAL EXPERIENCE

Java Senior Full-Stack Developer

Nemos s.r.l. / TAS – Banking sector | October 2022 – March 2026 (Full-time)

- Developed and maintained enterprise applications in Java, Spring, Dojo and SQL Server within a regulated banking environment.
- Managed microservices architectures and supported customers in operating semi-automated pipelines.
- Implemented automatic testing strategies (mainly with JUnit and Mockito) and mentored junior developers on code quality and best practices.
- Delivered feature enhancements, bug fixes and system evolutions while ensuring stability of production systems.

Independent Software Architect

April 2026 – Present

- Evolving the Eywa IoT platform into a full SaaS product.
- Hands-on exploration of agentic and non-agentic AI tools in both local and commercial environments.
- Preparing for AWS Solutions Architect Associate certification and consolidating cloud architecture skills.
- Completing English C1 certification path.

Freelance Software Architect & Full-Stack Developer

Independent / Third-party clients | January 2005 – October 2022

- Owned the full software lifecycle: analysis, design, testing, deployment and ongoing support for direct and third-party clients.
- Combined application development with system administration and integration when projects required it.
- Collaborated effectively with clients, IT managers and cross-functional teams, using both standard and Agile methodologies (e.g. Scrum, Kanban).
- Delivered solutions across multiple domains: ERP/accounting, banking, healthcare, logistics and traceability, manufacturing (e.g. textile, mechanical), electronics & telecommunications, public administrations (e.g. Universities, municipalities).

CEO / CTO

Qwyddy Technologies OÜ – IoT Startup | January 2017 – July 2021

- Led the company as CEO/CTO with full responsibility for product, technology and customer management (Italian and international clients).

- Designed and delivered a semi-SaaS IoT platform (Eywa) integrating backend, frontend, embedded hardware and Android applications.
- Defined the technical roadmap, managed development priorities and handled direct customer relationships.

System Administrator

Cast Group, Modena | October 2003 – January 2005

- Managed Linux and Windows server infrastructure, networking and system operations.

Earlier Experience (during studies)

- 2002-2003: Teaching assistant at University of Modena and Reggio Emilia (email systems for first-year students).
- 2001: Web development at Texne s.r.l. (e-commerce sites).
- 1995-2000: development of the former municipal website of Modena (www.comune.modena.it) and contribution to one of the first Italian electronic signature projects (1997).

EDUCATION

Degree in Computer Engineering – University of Modena and Reggio Emilia

Final grade: 99/110 | July 2003

Thesis: Development of an Open Source Time-Stamping System

Scientific High School Diploma (1997): English and German as foreign languages

Registered in the Engineers' Register since February 2005

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, Angular2+, React, Node.js, Python, C/C++, .NET (C#/VB), PHP, Perl.
- **Backend & Architecture:** Spring / Spring Boot, Microservices, Kubernetes, Quarkus, REST & SOAP Web Services, Kafka, Hibernate / JPA / Sequelize.
- **AI tools:** ChatGPT, Grok, Ollama & Qwen/Stable Diffusion on local Nvidia hardware.
- **CI/CD & DevOps:** Docker, Jenkins, OpenShift, Helm, Git, Maven, Jaeger.
- **IDEs:** Visual Studio Code, IntelliJ Idea, Eclipse, Microsoft Visual Studio.
- **Frontend:** Angular, React, Material Design, Bootstrap, jQuery, HTML5, CSS3, XML/XSL.
- **Databases:** SQL Server, PostgreSQL, MySQL, Oracle (PL/SQL), MongoDB | Data integration: Pentaho.
- **Cloud & Infrastructure:** AWS, DigitalOcean, Microsoft Azure | Linux (RedHat, Debian/Ubuntu), Windows Server.
- **Mobile & Embedded:** Android development | Raspberry PI, BeagleBone, ESP8266, Orange PI, ST Nucleo and other SBCs/Microcontrollers.
- **Other:** Network Security, IoT, PKI.

SOFT SKILLS & ADDITIONAL INFORMATION

- Ability to evaluate commercial, economic and legal impact of technical decisions.
- Experience in small business management, startups, company incorporation abroad and innovation ecosystems.
- Strong client relationship management and experience leading both computer engineering and interdisciplinary collaborators.

Languages: Italian (native) * English (C1 – lived about 2 years in the Baltics) * German (basic)

Driving licence: B * **Volunteering:** Italian Red Cross

Last updated: September 2026