

Francesco Bullini

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Chief Technology Officer / AI Architect

7 years as Chief Technology Officer and leader of R&D projects in small and medium-sized businesses.
16 years of professional experience designing, developing and delivering distributed systems and SaaS platforms. **Expert in Agentic AI, Multi-Agent Systems and Gen AI.**
12 years of international experience working in culturally diverse, agile teams across several countries.
10+ application domains covered throughout my career.
3 languages spoken with full professional proficiency: **French, English, and Italian.**

Profile

Intellectually curious, quick learner and strategic team leader, with a strong focus on AI and security. My journey began in university labs with multi-agent systems and agentic AI research and has evolved into solid expertise in innovation, industry standards, and best practices, culminating in recent experience with cutting-edge AI technologies. Along the way, I progressed from developer to architect and ultimately to strategic leadership roles as a CTO.
Experienced in hybrid and remote collaboration, thriving in international environments.

Key Competencies

Management of AI and Software engineering projects:

R&D Management, Lead of complex projects, Adoption of AI, Agentic Systems, custom Retrieval-Augmented Generation pipelines (RAG), local AI assistants, Multi-Agent Systems, Context Engineering.

AI technologies:

LLM-related libraries (LangChain, LiteLLM, RouteLLM, Lark, FastAPI, mem0.ai), Ollama, vLLM, Docker-MCP, Model Context Protocol (MCP), agent-to-agent protocol (A2A), AG-UI protocol, Gradio, Streamlit, CoPilotKit, Vector Databases, Google Vertex AI, AWS Bedrock.

Other Technologies:

Python, Java, Spring Boot, JEE, API implementation, API Managers, Nginx, SQL, Relational Databases, NoSQL, MongoDB, Elasticsearch, Redis, Neo4J, RabbitMQ, Kafka, n8n.

Software architecture:

Microservice architectural style, Domain Driven Design, SOA (Service Oriented Architectures), Enterprise Integration Patterns, MVC Frameworks.

Cloud: Google Cloud Platform, Heroku, Netlify, Azure, AWS (S3, EC2), Docker, Docker Compose, Google Kubernetes Engine, CI/CD pipelines, Observability tools (Google Cloud Monitoring etc)

Front-end: Angular, Next.js.

Security and privacy:

OAuth 2.0, OIDC, JWT, Identity Providers, implementation of OWASP recommendations and GDPR compliance, ISO/IEC-27001.

Development practices:

Test-Driven Development (TDD), Behavior-Driven Development (BDD), design, architectural, and agentic patterns.

Key Professional Experience

([More information on LinkedIn](#))

Jan 2024 – Present **CTO / AI Architect** - Agentcity.ai (Paris, France)

- ▶ Designed and developed an agent-first AI-native distributed software infrastructure for contextual reasoning and programmable orchestration of teams of domain-specific AI Assistants.
- ▶ Designed and developed three MVPs for AI assistants (B2B) based on RAG pipelines, in the fields of civil construction, coaching of SME executives and longevity research.
- ▶ Designed and developed a tool to optimize the cost-quality trade-off in the usage of Large Language Models (LLMs).
- ▶ Designed and developed a custom ingestion component for unstructured data, including videos.

May 2022 – Nov 2023 **Consultant CPO/CTO** - EU project (Paris, France)

“D-Reskill at Universities” is a project funded by the European Commission to envision and design a software platform for reskilling workers using an explicit skill-based approach and [ESCO](#) ontology.

- ▶ Led technical meetings between European partners (15 professionals).
- ▶ Conducted feasibility studies exploring different ontologies and approaches to apply skill intelligence to education and for reskilling the workforce.
- ▶ Presented at international EdTech conferences.

Jun 2023 – Sep 2023 **Consultant CPO/CTO** - Open University of Catalonia (Barcelona, Spain)

UOC is one of the first European universities fully digital and provides courses to international students for more than 20 years.

- ▶ Designed a career guidance platform for the education and employability sectors.
- ▶ Led a team of 2 professionals in the development of the prototype.
- ▶ Facilitated high-impact design workshops with clients to drive product ideation and align on strategic goals.
- ▶ Conducted a feasibility study for integrating the product into the university's IT ecosystem and data pipelines.

Jul 2019 – Jul 2022 **Chief Technology Officer** - Pixis (Paris, France)

Pixis provides white-label SaaS solutions in the career advice and coaching sector using ontologies for skills, Sustainable Development Goals and a chatbot that guides the user in interacting with the application.

- ▶ Led concurrently up to 5 complex projects based on microservices.
- ▶ Managed a group of 5 data scientists in a machine learning project to exploit available data.
- ▶ Designed and led implementation of a cross-cloud, white-label SaaS, based on microservices.
- ▶ Developed technical proofs of concept which then became the key elements of new SaaS products.
- ▶ Designed authorization flows with Identity Provider (Azure AD B2C).

Mar 2021 – Feb 2022 **Scrum Master and Agile Coach** - Cosys (Paris, France)

The Flexup project proposes a SaaS product to implement a model for building and managing companies based on shared risk between participants.

- ▶ Introduced an internal agile process and led Sprint meetings.
- ▶ Created, maintained and facilitated the execution of the Roadmap.

Oct 2018 – Mar 2019 **CTO / Software Architect** - Stealth mode (Paris, France)
Participation in the conception of a startup in the banking sector.

► Elicited requirements, designed the architecture and implemented a PoC of the solution.

Jan 2016 – Jun 2018 **Senior Software Engineer** - Eptica (Boulogne Billancourt, France)

Eptica provides AI-powered solutions for multichannel call centers exploiting proprietary natural language processing (NLP) technologies and collaborative intelligence.

► Improved and maintained, within a Scrum team, a suite of interacting JEE applications, that constitutes about 80% of the enterprise revenue.

► Designed architecture, user stories and proof of concept for the introduction of linguistic-aware features on a CRM, like the Semantic Routing of messages.

► Led a cross-department project to improve security of applications, aligning them with OWASP recommendations and GDPR.

Sep 2014 – Sep 2015 **Business Analyst / Software Architect** - 2Collaborate Consulting (Geneva CH)
2Collaborate works in complex socio-cultural contexts such as United Nations projects on global themes, promoting an innovative methodology called “Action Intelligence”.

► Designed and developed proofs of concept to implement the “Action Intelligence” methodology.

Mar 2013 – Aug 2014 **R&D Software Lead** - Terabee (St. Genis Pouilly, France)

Terabee collaborates with CERN in the market of drones and advanced sensors.

► Led a 4-member team in a project that involved smartphones and drones in the golf sector.

► Implemented a set of photogrammetry services (like 3D reconstructions and orthomosaics) which enabled the company to explore new business opportunities related to aerial inspection.

Sep 2010 – Nov 2012 **Software Architect / Project Manager** - italianaSoftware (Imola, Italy)

ItalianaSoftware created the first language for microservices [JOLIE](#), in collaboration with centers of excellence ([INRIA](#), [SDU](#)) and an [international community](#).

► Led a team of 4 professionals in a 5-month project to replace a B2B eCommerce platform in the industrial metal components sector.

► Designed and implemented a fail-safe real-time data synchronizer for a distributed eCommerce of office supplies.

► Accomplished an external consultancy as QA engineer in the mobile carrier industry, in a system with more than 500 services.

► Led a project for the integration of microservices within a platform for web app development.

Jun 2011 – Jun 2012 **Consultant / Resource Trainer** - GemBB (San Marino)

GemBB is active in the sector of workplace safety, integrating legacy systems.

► Supervised the construction of 3 Extract-Transform-Load applications involving legacy systems.

Oct 2009 – Aug 2010 **Analyst / Developer** - Gheotech (Cattolica, Italy)

Gheotech operates in the field of public utility distribution (water, optical fiber, gas), leveraging its proprietary Geographic Information System (GIS), distributed documentation systems and video surveillance server.

► Led up to 6 projects, coordinating 3 professionals and interacting with stakeholders.

► Doubled the performance of a video surveillance server in terms of real-time streams handling and supported camera types, leading to the acquisition of more client contracts.

Education & Qualifications

Professionally qualified as a Chartered Engineer in Italy.

Master's Degree in Computer Engineering, Bologna University, Italy.

Specialization: Systems and Applications.