

## Professional Experience

### Xenia Reply

TECH LEAD

Milan, Italy

March 2026 – August 2026

- Leading the technical architecture and delivery of a secure, multi-tenant enterprise platform, managing system integrations (e.g., **HL7**, **mTLS**) and coordinating cross-functional teams to meet strict **SLAs**.
- Introducing an **AI-first Software Development Lifecycle (SDLC)**, integrating AI coding tools and **LLMs** to accelerate code generation, automate debugging, and validate architecture design.
- Designed scalable cloud infrastructures and automated **CI/CD** pipelines, enforcing strong **DevSecOps** practices, security governance (**WAF**, **EDR**, **IAM**), and observability (**Grafana**, **Chronicle**).

### Xenia Reply

SENIOR SOLUTION ENGINEER

Milan, Italy

April 2023 – February 2026

- **Cloud Architecture & Leadership:** Architected a highly available, multi-region microservices infrastructure on **GCP** for the PNRR-funded Regional Telemedicine Platform (PRT), coordinating cross-functional teams and external vendors (Google PSO, LDO, Atlantica).
- **Healthcare Interoperability:** Led the technical integration of complex clinical data flows (**HL7**, **CDA**), regional identity providers (SPID/CIE, Keycloak), digital signature systems, and medical IoT devices.
- **Security & DevOps:** Secured sensitive patient data (PHI) by implementing **WAF**, **mTLS**, and **EDR** solutions, while optimizing CI/CD pipelines on **Jenkins** to separate build and deploy phases across environments cleanly.
- **Infrastructure Optimization:** Engineered Kubernetes-based service communication, migrating service discovery from Eureka to **Consul** and implementing horizontal autoscaling for peak performance.
- **Additional Projects:** Designed an **AWS serverless** Mass Casualty Incident platform for an EIT project, automated multi-cloud provisioning (**Terraform**), and integrated a secure **SEPA** payment module for the Banca d'Italia.

### Xenia Reply

SOFTWARE ENGINEER

Milan, Italy

January 2022 – March 2023

- Built a data analysis pipeline using **AWS Athena** and **Comprehend Medical** to extract structured clinical insights from large volumes of unstructured patient documents.
- Initiated the architectural transition of a telemedicine platform to **microservices** and a cross-platform **Flutter** app, significantly improving application performance and scalability.
- Led the migration of on-premise infrastructure to a cloud-native **Kubernetes** environment on **AWS** and **OCI**, improving system reliability and reducing operational overhead.

### Healthy Reply

FULL-STACK DEVELOPER

Milan, Italy

July 2019 – December 2021

- Designed, developed, and deployed new user-facing features for the Ticuro telemedicine web platform and its native **Android** application.
- Engineered the real-time data integration of **Bluetooth (BLE)** medical devices (e.g., pulse oximeters, ECGs), enabling the platform's core remote patient monitoring capabilities.

## Certifications

### Amazon Web Services (AWS)

AWS CERTIFIED MACHINE LEARNING – SPECIALTY

Issued: Jan. 2023

### MIT Sloan School of Management

CERTIFICATE IN ARTIFICIAL INTELLIGENCE IN HEALTH CARE

Completed: May 2022

## Education

### Politecnico di Torino

SPECIALIZING MASTER, ARTIFICIAL INTELLIGENCE & CLOUD – Score: 110/110

Turin, Italy

Jan. 2021 – Dec. 2022

- **Key Project:** Designed and developed a novel heartbeat detection application for mobile devices within a hybrid app environment.

### Università degli Studi di Padova

M.S. IN ICT FOR HEALTH AND LIFE SCIENCES – 110/110 Cum Laude

Padua, Italy

Sep. 2017 – Apr. 2020

- **Thesis:** Conducted research on ECG anomaly detection by developing and evaluating an unsupervised neural network model.

## Skills & Technologies

Languages: Italian (Native), English (C1 - Professional Proficiency) Technical Skills

- **Programming:** Java, Kotlin, Python, Go, Dart, JavaScript, TypeScript
- **Cloud Platforms:** AWS (incl. SageMaker, Athena), GCP, OCI
- **Frameworks:** Spring (Boot, Cloud), Flutter, Angular, Django, FastAPI
- **Databases:** PostgreSQL, MongoDB, Oracle DB
- **DevOps & Build:** Kubernetes, Docker, Jenkins, Terraform, Consul, Maven, Gradle
- **ML Concepts:** LLMs, Agentic AI, Computer Vision
- **Tools & Web:** Git, IntelliJ IDEA, JSP, Servlets