

# Armando Ferrara

Zürich, Switzerland · [ferrara.link](https://ferrara.link) · [linkedin.com/in/ferraraarmando](https://linkedin.com/in/ferraraarmando) · [github.com/Armando1514](https://github.com/Armando1514)

## SUMMARY

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Enterprise Infrastructure & AI Architect designing resilient distributed systems for financial institutions and regulated enterprises across Switzerland and EMEA. Nine years across UBS, Dormakaba, Huawei, and enterprise consulting — cloud-native infrastructure, Kubernetes platform engineering, distributed architecture, and applied AI. Associate Director at UBS Zürich · ETH Zürich Diploma of Advanced Studies in Data Science.

## AREAS OF PRACTICE

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§ 01: Infrastructure Architecture — cloud-native platforms designed for the reliability bar of regulated enterprise systems.

§ 02: Kubernetes & Platform Engineering — production-grade orchestration, cluster optimisation, security hardening (CKA & CKAD).

§ 03: AI Systems & LLM Infrastructure — RAG pipelines, agentic systems, inference architecture, AI platform integration.

§ 04: Distributed Systems Consulting — event-driven architecture, observability, and scalability engineering.

## EXPERIENCE

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**Associate Director · Cloud DevOps Engineer**, UBS – Zürich, CH Mar 2024 – Present

- Architecting and scaling a cloud-native platform for instant-payment processing across Switzerland and EMEA, operating at the reliability bar of regulated banking infrastructure.
- Kubernetes cluster engineering and resource optimisation across multi-region production estates.
- Designed and implemented an Istio service mesh with mutual TLS — zero-trust traffic for all inter-service communication, meeting audit standards for a regulated banking environment.
- Cosmos DB optimisation, CI/CD pipeline automation, and infrastructure-as-code disciplines.
- Led adoption of a unified cluster strategy replacing fragmented multi-cluster deployments — subsequently adopted as the standard pattern bank-wide.
- CTO-recognised contributions to the bank's inner-source infrastructure library.

**Cloud Software Engineer**, Dormakaba – Zürich, CH Sept 2021 – Mar 2024

- Distributed IoT access-control infrastructure on AWS using event-driven architecture, Apache Kafka, CQRS, and Event Sourcing.
- Delivered 10% performance improvement and 30% increase in customer satisfaction.
- Doubled IoT device sales through platform reliability and feature velocity.
- Public keynote at the Kafka Switzerland conference on cloud-native IoT architecture.

**Software Engineer**, Huawei – Zürich, CH Sept 2020 – Sept 2021

- Built an internal management platform connecting Huawei Europe and Huawei China — microservices on Huawei Cloud with Node.js, Next.js, gRPC, and GraphQL.
- Designed for enterprise-grade high availability across regions.
- Cross-continental data flow at scale, with regulatory and operational constraints.

**Information Technology Consultant**, Alma Consulting – Naples, IT Jan 2016 – Jan 2020

- Enterprise software consulting across multiple clients — solution delivery with Java and Spring, requirements engineering, and full software lifecycle management.

## EDUCATION

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**ETH Zürich**, DAS in Data Science · Diploma of Advanced Studies – Zürich, CH 2024 – 2026

**Università degli Studi di Salerno**, MSc in Computer Science – Salerno, IT 2018 – 2020

- *Italian Innovative Thesis Award 2021.*

**Università degli Studi di Salerno**, BSc in Computer Science – Salerno, IT 2015 – 2018

## LANGUAGES

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English · Italian

## CERTIFICATIONS

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58 professional certifications · [linkedin / certifications](#)