

Davide Ferrari

CloudOps Engineer

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Italian (native), English (C1) | EU citizen | Open to remote work and relocation

PROFESSIONAL SUMMARY

CloudOps Engineer specializing in AWS, Infrastructure as Code (Terraform, AWS CDK, CDKTF), and large-scale cloud migrations. Led design and implementation of multi-agent assessment system cutting turnaround by ~70%. 5+ years of software engineering (C#/.NET, Python, TypeScript); AWS Certified Solutions Architect – Associate; M.Sc. in Computer Engineering (110/110 cum laude).

EXPERIENCE

DevOps Engineer | beSharp, Milan, Italy 2025 – Present

- Led the design and technical implementation of the company's first automated, multi-agent AI assessment system, reducing assessment turnaround time by ~70% and later adopted across all infrastructure teams.
- Enabled a new client acquisition strategy by making assessments cheap enough to offer prospective clients at no charge, increasing pipeline conversion by demonstrating value before contract signing.
- Designed enterprise-grade AWS cloud foundations (landing zones) with Terraform and AWS CDK, enforcing automated security compliance and high availability for clients in highly regulated industries.
- Led the end-to-end migration of a large-scale on-premises data center fleet to AWS for a credit management and financial services company, modernizing the stack with managed services and cloud-native architecture.

Cloud Engineering Intern | beSharp, Milan, Italy 2025

- Built a CDKTF-based Landing Zone Builder to orchestrate multi-account AWS environments (master's thesis project).

Full-Stack Developer (part-time during studies) | Zucchetti (formerly Maxidata), Italy 2020 – 2025

- Developed and maintained uve2k.blue, an ERP platform for wineries, across frontend and backend.
- Modernized backend APIs by migrating from SOAP to REST, improving consistency, pagination, and caching.
- Led the development of a new Blazor WebAssembly micro-frontend architecture, enabling modular and scalable web applications.
- Engineered a high-performance data grid for large datasets and built Analyzer, a reporting module for customer analytics with Power BI integration.

Freelance Software Developer | Rodeco Group, Italy 2019 – 2020

- Delivered desktop and in-vehicle software for airport runway and road pavement surveys, including data visualization and georeferenced reporting.

SKILLS

- Cloud:** Amazon Web Services (AWS), multi-account landing zones, cloud migration, security compliance automation
- Infrastructure as Code (IaC):** Terraform, AWS CDK, CDK for Terraform (CDKTF), CloudFormation
- DevOps and Observability:** Docker, Git, Grafana, Loki, Prometheus, RabbitMQ
- Generative AI:** Large Language Models (LLMs), multi-agent systems, GraphRAG, knowledge graphs, LangChain, Strands Agents, model quantization
- Programming:** Python, C#, TypeScript, JavaScript, C++, PowerShell
- Frameworks and Databases:** .NET, ASP.NET Core, Entity Framework Core, Blazor, React, Node.js, SQL Server, Redis, MongoDB, Neo4j, AWS Athena

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03) | AWS Certified Cloud Practitioner (CLF-C02)

EDUCATION

M.Sc. in Computer Engineering – 110/110 cum laude | University of Pavia, Pavia, Italy 2023 – 2025

Thesis: *Orchestration Strategies for Multi-Account AWS Environments: Design and Implementation of a CDKTF-based Landing Zone Builder*

B.Sc. in Electronic and Computer Engineering | University of Pavia, Pavia, Italy 2019 – 2023

Thesis: *Redis2History: A Modular Approach to Building ETL Pipelines for Historical Data Storage and Analysis*

PROJECTS

- Sunomi** (github.com/ferraridavide/sunomi): Cloud-native, YouTube-like video sharing platform built on AWS.
- ChatGPTPowerToys** (github.com/ferraridavide/ChatGPTPowerToys): Open-source PowerToys Run plugin for launching ChatGPT queries; 250+ GitHub stars.
- aca-project** (github.com/ferraridavide/aca-project): Distributed path tracing with c-ray and MPI, using tiling and sampling for scalable rendering.