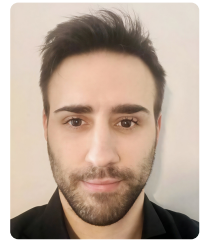


LUCA CESARANO

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Italian citizen · Swiss B permit · Zürich



SKILLS

CLOUD & PLATFORM

AWS — 250+ account estate: Landing Zone & Organizations, networking, IAM & identity, security (SCPs, KMS), EKS, Kubernetes, Helm, ArgoCD, Istio, Kong, GitLab CI/CD, Docker

OBSERVABILITY & SECURITY AI / AGENTIC

Datadog, PagerDuty, Snyk
Generative & agentic AI — Claude Code (skills, hooks, plugins, marketplaces), AWS Bedrock + AgentCore; multi-agent workflows, agent memory systems, RAG & knowledge bases, MCP

DEVOPS & IAC LANGUAGES

Infrastructure as Code: Terraform, Atlantis; Python, Bash, Linux
Italian (native), English (fluent), German (B1)

WORK EXPERIENCE

HEAD OF PLATFORM, SITE RELIABILITY ENGINEERING

Sygnum Bank AG

\$1B+ FINMA-regulated digital-asset bank.

Hybrid IC-manager: ~50% engineering / ~50% management.

JAN 2025 – PRESENT

Zürich, Switzerland

- Reset the SRE Platform team's operating model from the ground up (priority framework now adopted by all Sygnum platform teams, redesigned PagerDuty on-call / Slack / incident-communication standards) — external-team request backlog cut from **40+ to <10** with **two consecutive PIs at 100% objective completion**; invited to present the turnaround company-wide.
- Authored Sygnum's first SLO/SLA + reliability/alerting framework on Datadog with multi-window burn-rate alerts (approved 2025); **3 services LIVE, 10+ in pipeline**.
- Hardened platform security to meet company audit standards: rolled out Datadog RBAC + Index Management, introduced Snyk vulnerability management with a CISO-approved SLA standard, and automated the GitLab token lifecycle — **120+ access tokens rotated monthly as code, eliminating manual rotation**.
- Led company-wide incident response — **same-evening patching of a critical (9.8 CVSS) Kong CVE across all gateways**; hands-on restoration of a company-wide Kafka credential outage.
- Use AI to cut managerial overhead and stay hands-on: authored skills in Sygnum's internal Claude Code plugin marketplace (SRE triage, slide automation, infrastructure), **manage Jira agentially** (AI-driven analytics and worklog automation), and **halved PI-planning prep time** with an agentic planning skill adopted by both SRE teams. Consulted by leadership and asked to run a company workshop on applying AI to ways of working.
- Leading the platform build of Sygnum's AI Landing Zone from scratch — **governed Amazon Bedrock across 4 dedicated AI accounts** for a regulated bank (EU-only inference, PrivateLink-isolated, SCP-enforced, org-wide guardrails & invocation logging), **first RAG knowledge base live**.
- Drive cost-optimisation programme: **~43% Spot adoption sustained** on EC2 compute plus Instance Scheduler shutting down non-prod off-hours — **~30% reduction in EC2 compute cost** versus the On-Demand baseline.
- Lead engineers across Zürich and Singapore; closed **5 hires** across SRE, DevEx and IT Security; ad interim Manager for the DevEx Team since Oct 2025 and for the SRE Security Specialist role.

TECH LEAD, SITE RELIABILITY ENGINEERING

Sygnum Bank AG

Hybrid IC-manager: ~50% engineering / ~50% management.

JAN 2024 – JAN 2025

Zürich, Switzerland

- Led Sygnum's AWS Landing Zone redesign in partnership with AWS ProServe (on-site engagement at AWS offices): designed the Sygnum-side infrastructure code, domain/workload account separation, IAM model, and EKS rollout. **AWS estate scaled from 4 accounts (single-region) to 250+ across 3 regions** (CH, EU, APAC) during the programme.
- Automated the security controls underpinning Sygnum's regulatory (FINMA / ISAE) audits — **~30 AWS Config rules and 4 compliance benchmarks (AWS FSBP, CIS, NIST 800-53) across 7 org-wide security services, enforced by 12 SCPs**; hardened the AWS Organisation with a dedicated Restricted OU isolating its most sensitive accounts.
- Designed Datadog architecture from zero to org standard — **now monitoring 100+ production services**.
- Drove Kong Gateway adoption as the Sygnum-standard API gateway — **now running 40 data planes across 8 business domains and 4 environments** (Kconnect hybrid, delivered via ArgoCD GitOps).
- Led delivery of EKS Updater (**eliminated weeks of manual upgrade toil twice a year across ~65 EKS clusters**) and ArgoCD-managed application updates across all domains.

SENIOR ASSOCIATE, SITE RELIABILITY ENGINEERING

Sygnum Bank AG
Individual contributor.

AUG 2022 – JAN 2024

Zürich, Switzerland

- Contributed to the AWS Landing Zone foundation: infrastructure code, account-separation patterns, and EKS rollout.
- Designed access-control across Sygnum's stack: OpenSearch RBAC, Kubernetes RBAC, AWS Secrets Manager policies, and AWS IAM Identity Center (SSO) — aligned to least-privilege and audit-ready company standards.
- Built and maintained containerised microservices on EKS and their GitLab CI pipelines.

SITE RELIABILITY ENGINEER

Reply Group (Storm Reply) · Full-time consultant at Generali Investments
Individual contributor.

FEB 2021 – JUL 2022

Turin, Italy

- Refactored pipelines and Terraform infrastructure (**4× pipeline efficiency, 2× app performance, 30% toil reduction** via auto-remediation CLI).
- Contributed to the design and build of the client's AWS Landing Zone.
- Built the client's ELK monitoring/logging platform and operational dashboards.

PROJECTS, PUBLICATIONS & WRITING

- Open-source contributions:
 - Maintainer of [jdamata/terraform-provider-sonarqube](#) — the most-used Terraform provider for SonarQube (**9.8M+ registry downloads**).
 - Multiple PRs merged to [runatlantis/atlantis](#) — popular Terraform GitOps automation tool (**9.2k★ / 1.3k forks**).
 - Multiple PRs merged to [DataDog/terraform-provider-datadog](#) — the official Datadog Terraform provider (**480M+ registry downloads**).
 - Merged PR to [gitlab-org/terraform-provider-gitlab](#) — the official GitLab Terraform provider (**160M+ registry downloads**).
 - Multiple PRs merged to [unslothai/unsloth](#) — popular open-source LLM training & inference framework (**67k★ / 6k forks**).
 - Merged PR to [aws-samples](#) — AWS's official samples organisation, used globally for AWS reference implementations.
 - Multiple PRs merged to [CalcProgrammer1/OpenRGB](#) — popular cross-platform hardware-RGB control tool (**3k★ / 1.7k forks**). My personal project [kraken-unleashed](#) is listed in OpenRGB's README under "Related Projects".
 - Multiple PRs merged to [zp1x1/windisplay](#) — open-source Windows brightness control over HDMI.
- Built [ike](#) — open-source k9s-style terminal UI for Datadog, released on Homebrew; developed end-to-end by directing agentic AI workflows (Go).
- Tech writing on Medium, including articles featured in Better Programming ([lucacesarano.medium.com](#)).
- Open-source Android language app ([Say It! Pronunciation App](#), no longer on Store) — **30,000 downloads, 4.9/5** (320 reviews).
- Occasional advisory work for early-stage startups on cloud architecture and platform setup.

CERTIFICATIONS

AWS Solutions Architect — Professional
AWS Solutions Architect — Associate

FEB 2022

NOV 2021

EDUCATION

MASTER OF COMPUTER ENGINEERING

Alma Mater Studiorum University of Bologna

SEP 2018 – MAR 2021

Bologna, Italy

- Research project at UOC Barcelona (2020-2021): A Real-Time Energy-Saving Mechanism in Internet of Vehicles Systems; published in IEEE Access.
 - **"A Real-Time Energy-Saving Mechanism in Internet of Vehicles Systems"** — **first author**, IEEE Access 2021 (peer-reviewed; **20 citations**).

BACHELOR OF COMPUTER ENGINEERING

Federico II University of Naples

OCT 2012 – JUL 2018

Naples, Italy