Alessandro Sanino

Certified senior multi-cloud (Azure / AWS / Cloudflare / OCI) architect with founder mentality

Profile

Certified senior AWS cloud architect and backend engineer with over 9 years of experience. Proficient in Go, TypeScript, DevOps and Infrastructure as Code. Engineered the Arduino CLI in 2017, now widely used worldwide. Developed a go-based algotrading bot framework during research in blockchain field in 2018. Founded Tryvium Travels, an OTA with cryptocurrency payments - 2M properties as side project in 2019. Currently freelancing as Fractional Cloud Architect.

Employment History

Fractional Cloud Architect – Migration, Malta (remote)

February 2026 — Present

- Migrated 40+ webapps to Cloudflare Pages, **achieving an actual 84% cost reduction** and a **re-platformed 50M requests/day backends** to Azure for an estimated **80% operational savings**.
- Engineered parallelized CI/CD pipelines on GitLab, slashing backend **deployment times from manual procedures to <2 minutes** and frontend deployments **from 2 hours to just 30 minutes**.
- Optimized efficiency by producing ultra-lightweight Docker images (size <30MB), hardening pipeline Secrets (Azure KeyVault), and refactoring SSR caching to achieve a **95+ average Lighthouse score without altering the core codebase**.

Computer Science / AWS Certfied Instructor at ITS ICT Piemonte, Bra

December 2024 — Present

- **Led** the effort to license and issue **AWS Academy curricula**, directly enabling **1000+ students** in the Piedmont region to access free cloud training, certification vouchers, and development credits.
- **Enhanced** student engagement and comprehension by **integrating real-world scenarios and case studies** drawn from my own **startup experience.**

DevOps Tech Lead at AppLoad, Remote

October 2022 — December 2024

- Led a **strategic infrastructure migration** from **on-premise to AWS**, **cutting operational costs by 60%** through optimization of key services (EC2, ECS, S3, RDS, Elasticache, SES).
- **Set-up** an automated, standardized deployment framework for external teams, leveraging **Terraform and Pulumi** blueprints with **Github Actions** to provide a solid and secure base while **improving deployment time** from hours to minutes.
- **Established** and documented all required security and operational best practices, securing **ISO 27001 certification** and enabling the company to meet its **key regulatory pre-requisite**.

Founder and CTO at Tryvium Travels, London (Remote)

August 2019 — Present

Details

Phone: +39 393 559 8693
Mail: alessandro@sanino.dev

Nationality

Italian

Languages

Italian

English

Links

Personal Website
LinkedIn
Github
OrcID
Credly

Skills

Amazon Web Services (AWS)
Oracle Cloud Infrastructure
Cloudflare
Infrastructure as Code
Pulumi
Terraform
Github Actions
Gitlab CI
Golang
Microsoft Azure
TypeScript
Node.js
MongoDB
web3.js
Docker
JavaScript
Kotlin
Git

- **Successfully launched** the product's first iteration, connecting **over 2M properties** from 5 rate providers while establishing and maintaining **sub-second (< 100ms) average API response times** for critical data delivery.
- **Designed** and optimized the email content delivery pipeline using **AWS SES** and **Mailbluster**, guaranteeing **40k promotional and transactional e-mail deliveries/month**.
- **Managed** a small development team, establishing a cadence of **weekly feature updates** and successfully delivering the product across a **multi-cloud architecture (AWS and Cloudflare)**.

Blockchain engineer at Mangrovia Solutions, Milan
June 2018 — July 2019

- **Pioneered** the development of the company's proprietary **Blockchain-powered Document Management System (Papeers)**, engineering the foundational architecture and first working version.
- **Designed** and executed security-focused Smart Contract solutions for decentralized applications, **protecting client ICO rounds** through the development of secure and performant EVM-based tokens.
- **Created** a **high-performance algotrading arbitrage** system for **crypto markets**, based on a custom **open-source framework** I built (https://github.com/saniales/golang-crypto-trading-bot), responsible for managing **2M EUR in daily transaction volume.**

Blockchain researcher at University of Turin, Turin
January 2018 — April 2022

- **Designed** and deployed a private **EVM-based Blockchain** for COCITY and BLINC, managing the full development lifecycle, including strategic selection of the EVM chain and cluster deployment.
- **Delivered** the first version of the projects' **decentralized applications (dApps)** by integrating EVM-based light wallets and leveraging a comprehensive stack, including **React**, strongloop/loopback, web3.js, and ethers.js/hardhat.
- **Published 3 academical papers** on Blockchain for Urban Commons

Software developer (cloud) at Arduino, Turin
May 2017 — November 2017

- **Improved** database performance by by optimizing **CockroachDB indexes and queries**, **cutting API response time from 10 to 1 second.**
- **Engineered** and developed the core version of the **Arduino CLI**, achieving widespread global adoption with **millions of installations** and **over 10.000 GitHub stars**.

Certifications (verifiable on Credly)

AWS Solution Architect – Associate
AWS Tech Academy – Certified Educator
Oracle Cloud Infrastructure Certified Architect Associate
Oracle Cloud Infrastructure Certified Multicloud Architect Professional

Academic publications

UTS: The Universal Token Swapper
URL: **https://doi.org/10.1007/978-3-031-32415-4_39**

CommonsHood: A Blockchain-Based Wallet App for Local Communities
URL: **https://doi.org/10.1109/DAPPS49028.2020.00018**

Co-City: blockchain enabled urban commons
URL: **http://hdl.handle.net/2318/1707569**

Education

Bachelor of Science (BSc), Computer Science, University of Turin,
October 2013 — April 2017