

Amin Marashi

Senior Software Engineer

Cloud Infrastructure · DevOps · SRE

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Authorized to work in the EU without sponsorship.

SUMMARY

Senior engineer with 10+ years across cloud infrastructure, backend, and DevOps, including a DevOps Tech Lead role running release engineering and database operations. I build the CI/CD pipelines, infrastructure as code, and observability behind reliable delivery, and I have carried round-the-clock on-call. AWS Certified Solutions Architect – Professional, with a record of cloud cost reduction (€100K a year; thousands of USD a month) and a 2 TB on-prem-to-GCP migration done with minutes of downtime.

EXPERIENCE

Senior Software Engineer · New10 (ABN AMRO)

Oct 2022 – Present

Amsterdam, Netherlands

- Led the deprecation of a bulky core service, splitting it into two smaller, purpose-built ones I designed and rolled out across teams; one replaced the direct KVK (Dutch Chamber of Commerce) connection with an in-house ABN AMRO source, **cutting company-data lookup costs by more than half (€100K a year)**.
- Drove the architecture approval and cross-team buy-in to break a monolithic contract service into domain-specific microservices; moved contract generation onto Salesforce behind a backwards-compatible layer so old and new systems run in parallel through the migration, then helped roll it out.
- Added **beta publishing to the internal-package CI/CD pipeline** and rolled out a **company-wide log-anonymization process**, so every team could ship and test pre-release versions safely.
- Own security and vulnerability remediation across the risk-domain services; cleared all open vulnerabilities, set up a recurring triage schedule, and created a Sentry-alerts channel for sandbox environments.
- Made a core service testable locally with serverless-offline and **removed the bundler to cut build times**; upgraded the Serverless-to-Terraform outputs module.
- Designed integration and end-to-end testing tooling across services; hosted and presented the company-wide Service Engineering Meetings (feature flags, local serverless debugging).

Stack: [Serverless Framework](#) [AWS Lambda](#) [API Gateway](#) [SNS](#) [CloudFormation](#) [Terraform](#) [GitLab CI](#) [Datadog](#)
[Sentry](#) [PagerDuty](#) [TypeScript](#)

Senior Software Engineer · Fashion Cloud

Jun 2021 – Oct 2022

Amsterdam, Netherlands

- Orchestrated an in-house data ETL pipeline with **AWS Step Functions and CDK**; processed and merged high-volume product data in PostgreSQL and loaded the result into MongoDB at the final stage.
- Led the re-architecture that fixed scalability, decoupling pipeline stages into independently deployed ECS containers and owning the rollout; on-call for the pipeline.

Stack: [AWS](#) [ECS](#) [Step Functions](#) [CDK](#) [CloudFormation](#) [PostgreSQL](#) [MongoDB](#) [TypeScript](#)

DevOps Tech Lead · Deriv.com (formerly Binary.com)

Dec 2019 – Jun 2021

Cyberjaya, Malaysia

- Built a release manager on top of Chef and Slack **coordinating company-wide releases across hundreds of EC2 instances**; ran round-the-clock on-call.
- Led the migration of an on-prem BI stack (incl. a **2 TB reporting database**) to GCP with **minutes of downtime**, owning the architecture and cutover, and cut GCP spend by **thousands of USD a month**.
- Ran Docker Swarm on GCP for BI applications (Metabase, Apache Airflow, BigQuery).
- Led a team of senior PostgreSQL engineers; implemented database hardening and set up tested point-in-time-recovery (PITR) backups.

- Automated tagging and release workflows by integrating Trello, GitHub, and Redmine; ran an in-house Git server synced between GitLab and GitHub.

Stack: [AWS](#) [EC2](#) [GCP](#) [Docker Swarm](#) [Chef](#) [Airflow](#) [BigQuery](#) [PostgreSQL](#)

Full Stack Engineer · Deriv.com (formerly Binary.com)

Jan 2016 – Dec 2019

Cyberjaya, Malaysia

- Worked across a distributed, message-driven trading backend: thin WebSocket API layers delegating to RPC workers over Redis queues, handling sub-second price ticks and trades.
- Wrote a Perl integration and load-testing framework (IO::Async, Future) and a streaming [WebSocket→S3 uploader](#) for KYC documents.
- Designed [@deriv/deriv-api](#), a reactive abstraction over the trading WebSocket API **used across all of the company's front-end apps**.
- Briefly served as Database Administrator (2019): DB hardening, replica routing, and a 5× faster integration-test suite.

Stack: [Perl](#) [JavaScript](#) [WebSocket](#) [Redis](#) [PostgreSQL](#) [AWS](#)

Full Stack Engineer · Freelance / Self-employed

Mar 2012 – Jan 2016

Remote

- Built a D3.js dashboard visualizing RADIUS authentication logs streamed via DynamoDB Streams and AWS Lambda (Eleven Wireless).
- Developed AngularJS dashboards on Django/Flask REST APIs, documented with Swagger; shipped cross-platform mobile apps in Python (Kivy).

System Administrator · Shiraz University

Sep 2010 – May 2012

Shiraz, Iran

- Linux administrator for the CSE department; managed course-management and AD servers, and built a UI to orchestrate virtual PCs with importable snapshots.

SELECTED PROJECTS

- Personal serverless platform on AWS: Rust Lambda services behind API Gateway with DynamoDB storage and frontends on Cloudflare Pages, built with security and scalability as first-class concerns.
- [ai-tools](#) — CLI utilities for AI-assisted development, including *cerebro*, an orchestrator that runs and monitors multiple Claude agents until they produce a reviewed, merge-ready pull request.

EDUCATION & CERTIFICATIONS

Education

B.Sc. Computer Engineering, Shiraz University (2009–2014)

Cloud DevOps Engineer Nanodegree, Udacity (2020)

Certifications

AWS Certified Solutions Architect – Professional (2025)

AWS Certified Solutions Architect – Associate (2024)

Domain-Driven Design (DDD), O'Reilly (2024)

AWS Certified Developer – Associate (2022)

SKILLS

Cloud / Infra

AWS (Solutions Architect – Professional), Lambda, API Gateway, ECS/Fargate, SNS, Step Functions, CloudFormation, CDK, Terraform, Serverless Framework, GCP, BigQuery

Containers

Docker, Docker Swarm, ECS/Fargate, Kubernetes

CI/CD & SRE

CI/CD pipelines, release engineering, GitLab CI, observability (Datadog, Sentry), incident response (PagerDuty), on-call, integration & E2E testing

Databases

PostgreSQL, MongoDB, Redis, DynamoDB, PITR backups, DB hardening, ETL / data pipelines

Languages

Bash, TypeScript, JavaScript, Python, Perl, SQL, Rust

Languages (human)

English (professional), Persian (native), Dutch (B2)