

# Amin Marashi

## Senior Software Engineer

Amsterdam, Netherlands · me@amin.codes · +31 6 5740 8572

[amin.codes](#) · [linkedin.com/in/amin-codes](#) · [github.com/aminmarashi](#)

Authorized to work in the EU without sponsorship.

## SUMMARY

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Senior software engineer with 10+ years across backend, data infrastructure, and cloud. I build ETL pipelines that merge and load high-volume data, with PostgreSQL doing the processing and a document store taking the final load, orchestrated on AWS with Step Functions and CDK. I have also run production databases: tested point-in-time-recovery (PITR) backups, replica routing, hardening, and a 2 TB reporting-database migration to the cloud with minutes of downtime. AWS Certified Solutions Architect – Professional.

## EXPERIENCE

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### Senior Software Engineer · Fashion Cloud

Jun 2021 – Oct 2022

*Amsterdam, Netherlands*

- Built and maintained an in-house data ETL tool that processed and **merged high-volume product data in PostgreSQL**, loading the merged 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.
- Orchestrated the data pipelines with **AWS Step Functions and CDK**; evaluated visual ETL tools for the data-transformation step; on-call for the pipelines.

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

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

Dec 2019 – Jun 2021

*Cyberjaya, Malaysia*

- Led the migration of an on-prem BI stack (**Metabase, Apache Airflow, BigQuery**), including a **2 TB reporting database**, to GCP with minutes of downtime, owning the architecture and cutover; cut GCP spend by thousands of USD/month.
- Led a team of senior **PostgreSQL** engineers; implemented database security measures and set up tested **point-in-time-recovery (PITR) backups**.
- 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.
- Automated tagging/release workflows by integrating Trello, GitHub, and Redmine; ran an in-house Git server synced between GitLab and GitHub.

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

### Senior Software Engineer · New10

Oct 2022 – Present

*Amsterdam, Netherlands*

- Led the deprecation of a bulky core service, splitting it into two smaller, purpose-built services 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, moving contract generation onto Salesforce behind a backwards-compatible layer for a phased migration.
- Designed integration and end-to-end testing tooling across services; hardened API-server middleware with stronger request/response validation.
- Added **beta publishing to the internal-package CI/CD pipeline** and a **company-wide log-anonymization process**.
- Designed a new forbearance offer-type flow in the risk domain, settling its scope across product and engineering, and introduced integration tests to that service.

Stack: [TypeScript](#) [Node.js](#) [AWS](#) [Serverless](#) [Fargate](#) [API design](#)

Cyberjaya, Malaysia

- Briefly served as Database Administrator (2019): DB hardening, **replica routing**, and a **5x faster integration-test suite**.
- 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.
- Designed and implemented `@deriv/deriv-api`, a reactive abstraction over the trading WebSocket API, **used across all of the company's front-end apps**.
- Wrote a Perl integration/load-testing framework (IO::Async, Future) and a streaming **WebSocket→S3 uploader** for KYC documents.

Stack: `Perl` `JavaScript` `PostgreSQL` `Redis` `WebSocket` `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

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- **Lit Feed** — a distributed feed-reader: a MongoDB Atlas worker system asynchronously refreshes articles and feeds, with a separate Python engine classifying articles, behind a Vercel full-stack app.
- **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

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### 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

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### Languages

#### Data & databases

SQL, TypeScript, JavaScript, Python, Perl, Bash  
PostgreSQL, MongoDB, Redis, DynamoDB, ETL / data pipelines, high-volume data, BI & reporting (Metabase, Apache Airflow, BigQuery)

#### Cloud / orchestration

AWS (Solutions Architect – Professional), Step Functions, CDK, Lambda, ECS/Fargate, GCP, Docker

#### Database operations

PITR backups, replica routing, hardening, integration-test performance, data-warehouse migration

#### Practices

CI/CD, integration & E2E testing, release engineering, observability, on-call/SRE

#### Languages (human)

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