

# Amin Marashi

## Senior Software Engineer

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Authorized to work in the EU without sponsorship.

## SUMMARY

Full-stack engineer with 10+ years shipping web front-ends and the backend services and APIs behind them. I work across the whole feature: data model, API, and UI. On the front end I have built React apps, migrated a legacy site to a modern JS stack, and put live data on the screen with WebSocket feeds and D3.js dashboards. On the back end I design REST and WebSocket APIs on Node.js, PostgreSQL, and AWS, with test-driven development and CI/CD. AWS Certified Solutions Architect – Professional.

## EXPERIENCE

### Senior Software Engineer · New10

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 (Marketing Cloud) behind a backwards-compatible layer so old and new systems run in parallel during migration, then helped roll it out.
- Designed integration and end-to-end testing tooling across services; hardened API-server middleware with stronger request/response validation.
- 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.
- Added **beta publishing to the internal-package CI/CD pipeline** and a **company-wide log-anonymization process**.
- Conducted backend-engineer technical interviews; hosted and presented the company-wide Service Engineering Meetings.

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

### 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 data pipelines with AWS Step Functions and CDK; evaluated visual ETL tools for the data-transformation UI.

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

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

Jan 2016 – Dec 2019

Cyberjaya, Malaysia

- Built the most successful front-end trading app on the WebSocket API (generating millions in annual revenue) and migrated the legacy site to a modern JS stack (Babel + React).
- Implemented a lightweight charting solution for the mobile trading application.
- Designed and implemented [@deriv/deriv-api](#), a reactive abstraction over the trading WebSocket API, plus its documentation, **used across all of the company's front-end apps**.
- Proposed and built [Deriv Bot](#), a visual auto-trading platform (Google Blockly); maintained its [JavaScript-interpreter sandbox npm package](#).
- 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/load-testing framework and a streaming [WebSocket→S3 uploader](#) for KYC documents; briefly served as DBA (2019) for a 5× faster integration-test suite.

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

**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**.
- 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; cut GCP spend by thousands of USD/month.
- Led a team of senior PostgreSQL engineers and ran round-the-clock on-call; implemented database security measures and tested point-in-time-recovery (PITR) backups.

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

**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).
- Implemented an IETF draft for IPv6 headers in the FreeBSD kernel (C); real-time radar dashboard for SkyRadar.

**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.
- Teaching assistant (Computer Architecture, Automata Theory, FPGA Lab, 8086 Assembler); researched automatic SELinux/MAC policy generation.

## SELECTED PROJECTS

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- **Lit Feed** — a full-stack feed-reader product he builds and ships solo: a Vercel full-stack frontend over backend services, a MongoDB Atlas worker system that refreshes feeds asynchronously, and a Python engine that classifies articles.
- [gpt-api-companion](#) — TypeScript front-end and tools built around the GPT API for using it directly, without the ChatGPT interface.
- [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

TypeScript, JavaScript, Python, Perl, SQL, Bash

### Front-end

React, WebSocket clients, D3.js / charting, AngularJS, HTML/CSS

### Backend

Node.js, REST & WebSocket APIs, API design, PostgreSQL, MongoDB, Redis, DynamoDB, data pipelines / ETL, DDD

### Cloud / Infra

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

### Practices

Test-driven development, integration & E2E testing (Cypress), CI/CD, release engineering, observability, on-call/SRE

### Languages (human)

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