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 own features start to finish, from the schema and API design through the React UI and its tests. 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.
- Helped design integration and end-to-end testing tooling; added request and response validation to the API-server middleware.
- Designed a new forbearance offer-type flow in the risk domain, agreeing its scope with product and the other engineering teams, 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 · Lambda · 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

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 · 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

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

- **Lit Feed**: a full-stack feed-reader I build and ship 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.
- cerebro: orchestrator that runs and monitors multiple Claude agents until they produce a reviewed, merge-ready pull request.
- ai-tools: small CLI utilities for AI coding-agent workflows.

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

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)