Amin Marashi

Senior Software Engineer

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Authorized to work in the EU without sponsorship.

SUMMARY

Senior software engineer with 10+ years across backend, full-stack, and cloud infrastructure. I build systems that are useful, maintainable, and boring in the best possible way: things that work and tools that save time. I do my best work close to the problems where engineering quality, product needs, and developer experience overlap, like API design, data pipelines, testing automation, and pragmatic cloud architecture. 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 services and owning the design, the cross-team rollout, and the engineers building them. 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.
- Drove two company-wide changes: **beta publishing** in the internal-package CI/CD pipeline and a **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.
- Designed integration and end-to-end testing tooling across services; hardened API-server middleware with stronger request/response validation.
- Conducted backend-engineer technical interviews; **hosted and presented the company-wide Service Engineering Meetings**.

Stack: TypeScript · Node.js · AWS · Serverless · Fargate · API design

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 the tool's scalability, decoupling pipeline stages into independently deployed ECS containers and owning the rollout to production.
- Orchestrated data pipelines with AWS Step Functions and CDK; evaluated visual ETL tools for the transformation layer.

Stack: TypeScript · AWS · ECS · Step Functions · CDK · PostgreSQL · MongoDB

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

Dec 2019 – Jun 2021

Cyberjaya, Malaysia

- Led a team of senior PostgreSQL engineers and ran round-the-clock on-call.
- 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.
- Automated tagging/release workflows by integrating Trello, GitHub, and Redmine; ran an in-house Git server synced between GitLab and GitHub.
- Implemented database security measures and set up 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

- 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.
- Wrote a Perl integration/load-testing framework (IO::Async, Future) and a streaming WebSocket→S3 uploader for KYC documents.
- 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).
- 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.
- Briefly served as Database Administrator (2019): DB hardening, replica routing, and a 5× faster integration-test suite.

Stack: Perl JavaScript React WebSocket 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

- cerebro — orchestrator that drives Claude and Codex sub-agents through a plan, execute, and independent-review loop to a verified, merge-ready pull request; learns durable preferences across sessions and improves itself by mining its own run traces for recurring fixes; a Claude-free variant on opencode for company use.
- gymnasium — a personal "university" that discovers and ranks recent GenAI research papers from major labs by author prominence.
- ai-tools — small CLI utilities for AI coding-agent workflows.
- codex-proxy — Node.js proxy bridging the Claude Code CLI to OpenAI's Codex/Responses API, translating between the Anthropic and OpenAI request formats on the fly.
- gpt-api-companion — TypeScript tools built around the GPT API for using it directly, without the ChatGPT interface.

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
Backend	Node.js, REST & WebSocket APIs, API design, distributed / message-driven systems, PostgreSQL, MongoDB, Redis, DynamoDB, data pipelines / ETL, DDD
Cloud / Infra	AWS (Solutions Architect – Professional), CDK, Step Functions, Lambda, ECS/Fargate, Docker, Kubernetes, GCP
Practices	CI/CD, integration & E2E testing, release engineering, observability, on-call/SRE
Languages (human)	English (professional), Persian (native), Dutch (B2)