

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, now building with large language models. I integrate Anthropic and OpenAI models into real software, build and supervise AI coding agents, and write the classification and content-processing pipelines around them. Strong in TypeScript/Node.js and Python, API design, and test-first development with CI/CD coverage gates. AWS Certified Solutions Architect – Professional.

AI & LLM ENGINEERING

- **ai-tools / cerebro**: built an orchestrator that runs and monitors multiple Claude agents until they produce a reviewed, merge-ready pull request, and persists prior messages for later reference. Claude is my primary day-to-day coding agent.
- **codex-proxy**: a 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 tooling around the OpenAI GPT API, delivered as a full-stack chat app (chat.lit.codes) that uses the API directly without the ChatGPT interface.
- **Lit Feed (feed.lit.codes)**: a distributed feed system whose Python AI engine classifies, summarizes, and tags articles asynchronously and scores each by predicted interest; a MongoDB Atlas worker system refreshes feeds async behind a Vercel full-stack frontend.
- Designed and built a serverless game-creation platform that integrates Anthropic and OpenAI models under the hood, on Rust Lambda backends behind AWS API Gateway with DynamoDB storage.
- Practice: test-first TDD (failing tests before implementation), a CI/CD gate requiring **>80% unit coverage**, and Cypress smoke/integration tests against Ministack and real dev/acceptance environments.

EXPERIENCE

Senior Software Engineer · New10

Oct 2022 – Present

Amsterdam, Netherlands

- Designed integration and end-to-end testing tooling across services; hardened API-server middleware with stronger request/response validation.
- 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, moving contract generation onto Salesforce behind a backwards-compatible layer for a phased migration.
- 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 the flow with AWS Step Functions and CDK.

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

Cyberjaya, Malaysia

- Built a release manager on top of Chef and Slack **coordinating company-wide releases across hundreds of EC2 instances**; led a team of senior PostgreSQL engineers with 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; cut GCP spend by thousands of USD/month. Set up tested point-in-time-recovery (PITR) backups and DB hardening.

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`.
- 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).
- Wrote a Perl integration/load-testing framework and a streaming `WebSocket→S3 uploader` for KYC documents; worked across a distributed, message-driven backend (thin WebSocket layers delegating to RPC workers over Redis queues, sub-second ticks and trades).

Stack: Perl JavaScript React WebSocket Redis PostgreSQL

Full Stack Engineer · Freelance / Self-employed

Mar 2012 – Jan 2016

Remote

- Developed AngularJS dashboards on Django/Flask REST APIs documented with Swagger; shipped cross-platform mobile apps in Python (Kivy).
- Built a D3.js dashboard visualizing RADIUS authentication logs streamed via DynamoDB Streams and AWS Lambda (Eleven Wireless); implemented an IETF draft for IPv6 headers in the FreeBSD kernel (C).

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

AI / LLM

Anthropic & OpenAI API integration, Claude Code / Codex AI-assisted development, agent orchestration & review, async classification/content-processing pipelines

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

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

Languages (human)

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