Amin Marashi

Senior Software Engineer · AI / LLM Engineering

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Authorized to work in the EU without sponsorship.

SUMMARY

Senior software engineer with 10+ years in backend, full-stack, and cloud, now building with large language models. I integrate Anthropic and OpenAI models into real software, build agent tooling that plans and runs work and then has a separate model review the output, and write classification and content-processing pipelines backed by models. Strong in TypeScript/Node.js and Python, API design, and a test-first habit with CI/CD coverage gates. AWS Certified Solutions Architect – Professional.

AI / LLM ENGINEERING

- cerebro: an orchestrator that drives Claude and Codex sub-agents to a verified, merge-ready pull request. One model plans and writes each change, a separate one reviews it. It learns durable preferences across sessions and runs `cerebro improve` to mine its own run traces for recurring problems and propose the smallest fixes back into the harness. A Claude-free variant runs the same loop on opencode for use where Claude is not available.
- codex-proxy: a Node.js proxy that bridges 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 and a Chrome extension built directly on the OpenAI GPT API to chat with the models and pull in web-page content; powers the chat tool at chat.lit.codes.
- Lit Feed: a distributed feed reader whose Python AI engine classifies articles asynchronously while a MongoDB Atlas worker system refreshes feeds in the background; the enhancer adds summaries and tags and scores each article by predicted interest.
- ai-tools: CLI utilities for AI coding-agent workflows, including a tool that tails an agent's stream-json log and narrates what it is doing using a fast model.
- Designed and built a serverless game-creation product that uses Anthropic and OpenAI models under the hood; Rust Lambda backends behind AWS API Gateway with DynamoDB storage.

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)**.
- Test-first with a >80% unit-coverage gate in CI and Cypress smoke and end-to-end suites on Ministack and real dev/acceptance environments; added the first integration tests to a risk-domain service and schema validation on request and response payloads in the API middleware, rejecting malformed traffic at the edge.
- Drove two company-wide CI/CD changes: **beta publishing** in the internal-package pipeline and a **log-anonymization process**.
- Drove the architecture approval to break a monolithic contract service into domain-specific microservices and move contract generation onto Salesforce (Marketing Cloud) behind a backwards-compatible layer; conducted backend interviews and hosted 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 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; orchestrated the pipelines with AWS Step Functions and CDK.

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 Chef and Slack coordinating 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.

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, **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); worked across a distributed, message-driven backend of thin WebSocket layers delegating to RPC workers over Redis queues, handling sub-second price ticks and trades.
- Wrote a Perl integration/load-testing framework (IO::Async, Future); briefly served as DBA (2019): DB hardening, replica routing, and a 5× faster integration-test suite.

Stack: Perl JavaScript React WebSocket Redis PostgreSQL

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; 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).

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

AI / LLM: Anthropic & OpenAI API integration, AI agent orchestration & review, AI-assisted development (Claude Code, Codex), model-backed classification & content pipelines
Languages: TypeScript, JavaScript, Python, Perl, SQL, Bash, Rust
Backend: Node.js, REST & WebSocket APIs, API design, async worker / classification pipelines, distributed / message-driven systems, PostgreSQL, MongoDB, Redis, DynamoDB, ETL
Cloud / Infra: AWS (Solutions Architect – Professional), Lambda, API Gateway, Step Functions, ECS/Fargate, CDK, serverless, Docker, GCP
Practices: Test-driven development (TDD), CI/CD coverage gates, integration & E2E testing (Cypress), release engineering, on-call/SRE
Languages (human): English (professional), Persian (native), Dutch (B2)