David Avikasis

Software Architect & Tech Lead · Full-Stack · LLM Systems

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SUMMARY

Software architect and tech lead with 14 years building web products end to end, from infrastructure to UI. Currently architecting a new fintech product from concept to execution at Cache and, most recently, leading the development of its customer-facing AI assistant. Co-founder experience, one of the early developers at Fiverr, and team lead at Grappa and Samanage. Advocate of spec-driven (SDD) and AI-driven development; gives talks on both to engineering teams. Portfolio with live demos at deddy.dev.

EXPERIENCE

Software Architect & Tech Lead · Cache — Feb 2025 – Present

Remote · Fintech

- Joined to kick-start a new product: designed and implemented the system architecture and many of its services.
- Collaborate with the CEO and CTO on technical and product strategy; helped bootstrap the project from concept to execution.
- Lead the engineering lifecycle and promote high-quality delivery through hands-on mentorship and technical guidance.
- Drove an AI-agent-first engineering workflow (Cursor, spec-driven development) across the team.
- Led the design and delivery of CacheIQ, the company's customer-facing AI assistant: shaped its product and UX, architected its LLM integration, and built a release and evaluation framework that keeps the assistant's behavior reliable as requirements evolve.

Team Lead & Senior Software Developer · Grappa — 2024 – 2025

- Led an international full-stack team in a fast-paced environment, combining hands-on coding with technical leadership.
- Designed and developed applications and libraries in a monorepo, managing deployments and infrastructure on Kubernetes.
- Developed features across REST and GraphQL APIs (Hasura) and integrated additional microservices.
- Built and enhanced React user interfaces with a focus on performance and a seamless user experience.
- Developed, optimized and maintained Temporal workflows for reliable, scalable orchestration of complex processes.

Senior DevOps & Full-Stack Developer · Cognishape — 2023 – 2024

- Used the OpenAI API for natural-language understanding and generation (NLU/NLG), including advanced prompting and fine-tuning.
- Developed Python serverless cloud functions on GCP supporting complex chatbot workflows and integrating various natural-language-processing methods.
- Led major work on a React Native app: added features, fixed major issues, upgraded dependencies and led major refactors to improve scalability, performance and security.
- Introduced development practices from the ground up: a monorepo, CI/CD scripts and workflows, test automation and key security measures.

Senior Frontend Developer · Synamedia — 2021 – 2023

- Developed the entire Angular UI for Synamedia EverGuard, the management interface of a content-protection system, including charts built with amCharts.
- Defined API schemas and implementation decisions together with the backend team, and took part in UX/design and architectural decisions.

Co-Founder, Senior DevOps & Full-Stack Developer · Headstream — 2018 – 2020

- Co-founded Headstream, a sourcing-intelligence platform for Amazon sellers that surfaces and ranks profitable products from supplier catalogs, forecasts their performance, and manages supplier ordering; led its development end-to-end.
- Wrote a complete suite of cloud infrastructure as code with AWS CDK (Python and JavaScript).
- Developed Python scripts for data harvesting, streaming, aggregation, analysis and ML, running on AWS ECS/Fargate and Kinesis Data Firehose.
- Handled data and search with AWS RDS/MySQL, S3 + Athena, Elasticsearch and Redis.
- Developed the React UI on a serverless GraphQL API (API Gateway, Lambda, Cognito, Amplify), plus orchestration, scheduling and monitoring with Lambda and CloudWatch.

Full-Stack Developer & Team Lead · Samanage (SolarWinds ITSM) 2014 – 2019

Employee (~3.5 years), then freelance / contract

- Co-developed standalone and Salesforce web applications: backend in Ruby on Rails, frontend in Rails and React, and a React Native mobile app.
- Mentored developers and later led the team; took part in hiring.
- Took part in architecture decisions and DevOps work.

Co-Founder, DevOps & Backend Developer · Sponger 2013 – 2014

- Co-founded a startup and built the product from scratch to its first users.
- Developed the entire backend (Ruby on Rails, Redis, MongoDB) with automated CI/CD.
- Built an anti-fraud mechanism and a monitoring system; contributed to business and product planning, and UX.

DevOps & Backend Developer · Fiverr 2012 – 2013

- Joined as a paid intern after self-teaching Ruby on Rails via Code School, and grew quickly from there.
- One of the early developers of the platform; the team built rapidly scaling infrastructure supporting millions of active users.
- Developed Ruby on Rails backend features and microservices; troubleshot live system issues and downtime and handled fraud and cyber attacks.
- Helped get other developers up to speed.

Project Management, Radar & Radio Systems · Israel Defense Forces (Academic Reserve)

- Served in the Atuda academic-reserve officer track, assisting in project management in the radar and radio domains.

SKILLS

AI & LLM: OpenAI API, prompt engineering, fine-tuning, eval suites, NLU/NLG, chatbot workflows, directing AI coding agents

Languages: TypeScript, JavaScript, Python, Ruby

Frontend: React, React Native, Angular

Backend & architecture: Node.js, Ruby on Rails, GraphQL (Hasura), REST, Temporal, Domain-Driven Design, event-driven architecture, microservices

Data: MySQL (RDS), MongoDB, Redis, Elasticsearch, S3 + Athena, Kinesis Data Firehose

Cloud & DevOps: AWS (CDK, Lambda, ECS/Fargate, API Gateway, Cognito, Amplify, CloudWatch), GCP, Kubernetes, CI/CD, infrastructure as code, monorepos

Leadership: team leadership, mentoring, hiring, architecture and product strategy

EDUCATION

B.Sc., Electrical, Electronics & Communications Engineering · Lev Academic Center 2006

BEYOND CODE

Musician and producer across various genres · audio and video editing · graphic and vector design.