Eduard Kakosyan

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Summary

AI engineering lead. I start with the problem and use a model only where it fits, and I lead a four-person development team building AI systems for clients and for our own company.

Experience

Lead AI Developer (Tech & AI lead, leadership team) February 2025 – Present
AI-First Solutions | ai-first.ca *Halifax, NS*

Internal products

- Architect and lead of Keystone, our operations system: about **150** operations, each declared once and served to both the web app and Claude over MCP under the same row-level permissions, checked by over **1,300** database tests (Next.js, Supabase).
- Ran discovery first: interviewed the leadership team and audited how the old dashboard was used.
- Replaced two paid subscriptions (the notetaker alone cost **$3,132** a year, 9 seats at $29 a month) with Keeper, the meeting-notes and dictation app I built for our team: speech recognition on each Mac, summaries from an open-weights model on our own DGX Spark (Swift, Python).

*Client engineering: **39** projects across 31 organizations, including **5** custom builds I led to delivery*

- Cut manual first-pass review of RFQs and contracts for HVAC and recruitment firms with triage agents I built to sort, score and flag each document (Power Automate, Copilot Studio).
- Led RAG assistants that answer from clients' own content with cited sources; retrieval evals run on every build, with LLM-judged baselines before release (Next.js, pgvector).
- Leading an on-prem build: a local-model assistant on the client's own GPU, so the data stays on site.

Engineering leadership & enablement

- Hold the leadership team's tech and AI seat; set technical direction and lead delivery across the team.
- Set how the team builds with coding agents: requirements and design are reviewed before code, each task runs in its own branch, and secret scans, lint and tests gate every commit.
- Designed and managed a client's Skills for Hire data science and ML curriculum: **226** learners, 88% completion.
- Ran AI Accelerator sprints, cohort programs and workshops for client teams, CPA firms and a college.

AI Instructor, *ShiftKey Labs, Dalhousie University*: co-taught agentic AI to non-CS students Aug 2025 – Apr 2026

Co-Founder October 2024 – January 2025
CarGrep (ShiftKey Build) *Halifax, NS*

- Built an AI car-recommendation platform with conversational search and streaming answers (GPT-4o).

Selected Projects

dgx-autonomy — a local model built Keeper's first version unattended, graded by tests it can't edit 2026
lyfe — iPhone app and Rust backend for my routines and goals; a model estimates meals, rules decide 2026
kakosyaneduard.ca — my site as a small game at my cabin; a model only picks from answers I wrote 2026
HealthByte — LLM personas reacting to real and fake health news | **1st Place, Atlantic AI Summit** May 2025

Skills & Certificates

AI & LLMs: Anthropic Claude, Claude Code, MCP, RAG, evals, vLLM, SGLang, Ollama, llama.cpp, OpenHands
Languages & Frameworks: Python, TypeScript, SQL, Swift, Rust, Go, Next.js, React, Node.js, FastAPI
Cloud & Infrastructure: Supabase, PostgreSQL, Azure, AWS, Vercel, Docker, Linux, NVIDIA DGX Spark
Integrations & Automation: Microsoft Graph, Power Automate, Copilot Studio, n8n, Linear, QuickBooks Online
Certificates: AWS Cloud Practitioner, Communication Technologies & Cyber Security (Dalhousie)

Education & Awards

Dalhousie University | CGPA 3.8 Halifax, NS
Bachelor of Computer Science (Co-op) *Graduated May 2025*

- Future Tech Leaders Award · Sexton Scholar Award · Dean's List