

Daniel Podolsky

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SUMMARY

Full-stack engineer with proven competitive results, including 1st place at H.I.T. Hackathon and 2nd place at AWS Public Sector Innovation Hackathon. Builds AI-powered applications combining RAG architecture with serverless AWS infrastructure and modern React frontends. Creator of ownyourcode.dev, an AI-mentored, research-backed development workflow with 62 GitHub stars, and contributor to Exify, a production browser extension serving 1,000+ active users. B.Sc. in Computer Science.

SKILLS

Programming Languages: TypeScript/JavaScript.

Frontend: React.js, Tailwindcss, HTML5, CSS3. **Backend:** Node.js, Express.js, REST APIs, Docker.

Database & Cloud: MongoDB, AWS (Lambda, API Gateway, S3, DynamoDB, Bedrock, OpenSearch).

AI & Generative AI: Claude Code (Agents, Skills, Hooks, MCP), LLM Integration (Claude, OpenAI), Prompt Engineering, RAG, Pinecone.

Tools & Practices: Git, Gemini, Kiro, n8n. **Languages:** Hebrew (Native), English (Professional), Russian (Basic).

PROJECTS

MentorHIT – RAG-Powered Academic Guidance Platform | 2nd Place AWS Hackathon

Amazon AWS Public Sector Innovation Hackathon · github.com/MentorHIT · May 2025 – September 2025

Team of 4 Developers

- Architected a 2-step LLM query flow combining context planning with real-time data gathering from student grades, course history, and live job market sources.
- Implemented serverless AWS infrastructure (Lambda, Bedrock, DynamoDB, S3, API Gateway), selecting AWS Nova Lite for 30-second faster response times compared to other tested models.
- Built RAG pipeline using Titan embeddings and OpenSearch vector store, matching student queries against syllabus PDFs personalized by academic interests and career goals.

Portfolio Website – RAG-Powered Developer Portfolio

Personal Project · danielpodolsky.dev · November 2025 – Present

- Built an interactive portfolio featuring a RAG-powered chatbot that lets visitors ask natural language questions about the experience, projects, and everything in between.
- Implemented semantic search using OpenAI embeddings and Pinecone vector store, with Claude Haiku 4.5 generating responses – selected after testing multiple models for optimal speed and cost at this use case's scale.
- Developed with React 19 and TypeScript on Vercel, using serverless functions and the AI SDK to deliver real-time streaming responses, with Upstash Redis for rate limiting to manage API costs.

OwnYourCode – AI-Mentored Development System

Open Source Project · ownyourcode.dev · December 2025 – Present

- Built a spec-driven development agentic workflow for Claude Code that addresses "Cognitive Debt" – the documented phenomenon where developers lose code comprehension through AI over-reliance.
- Designed a skill-based architecture featuring 13 auto-invoking review modules, 6 quality gates enforcing comprehension before task completion, and a global learning registry that persists across projects.
- Published as open-source tooling with live documentation site, enabling developers – particularly those early in their careers – to integrate AI assistance while maintaining genuine code comprehension.

LLM-Powered Log Analyzer – AI-Driven System Intelligence

Personal Project · github.com/DanielPodolsky/LLM-Powered-Log-Analyzer · November 2025 – November 2025

- Architected microservices system (React/Vite, Express/TypeScript, Python/FastAPI) with full Docker containerization.
- Implemented Factory Pattern for LLM provider abstraction, enabling seamless switching between OpenAI and Hugging Face.
- Designed statistical pre-processing algorithms (error spike detection, rate analysis) to reduce noise before LLM processing.

EDUCATION

B.Sc in Computer Science

Holon Institute of Technology · Aug 2025 · 89 GPA

- **Relevant Coursework:** Web Development (JavaScript, React.js, Node.js, Express.js), Database Systems (MongoDB), AWS.

AWARDS & HONORS

Innovation and Excellence at AWS and H.I.T Hackathon

Holon Institute of Technology (HIT), AWS · 2025

- Featured in H.I.T.'s official article [highlighting the winning solution and team achievements](#).