

# Daniel Podolsky

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## SUMMARY

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Full-stack engineer with 1st place at H.I.T. and 2nd place at AWS hackathons, building AI-powered applications with RAG architecture. Integrates LLMs into production workflows – from semantic search to intelligent assistants. Plans architecture before writing code. B.Sc. in Computer Science (89 GPA).

## SKILLS

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**Programming Languages:** TypeScript/JavaScript, Python.

**Frontend:** React.js, HTML5, CSS3.

**Backend:** Node.js, Express.js, REST APIs, Docker, Microservices Architecture.

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

**AI & Generative AI:** LLM Integration (Claude, OpenAI, Hugging Face), Prompt Engineering, RAG, Pinecone, Semantic Search.

**Tools & Practices:** Git, GitHub, Design Patterns, Claude Code, ChatGPT, Kiro, n8n.

**Languages:** Hebrew (Native), English (Professional), Russian (Basic).

## PROJECTS

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### MentorHIT – AI-Powered Academic Guidance Platform 2nd Place Winner

Amazon AWS Public Sector Innovation Hackathon • [github.com/MentorHIT](https://github.com/DanielPodolsky/MentorHIT) • May 2025 – September 2025

- *AI platform providing CS students with academic and career guidance based on their grades, interests, and live job market data.*
- Architected 2-step LLM query flow: context planning → real-time data gathering (grades, course history, job market) → prompt-engineered output generation.
- Implemented RAG pipeline with live course syllabi and job market data; integrated Bedrock with DynamoDB for dynamic student profile access.
- Built serverless AWS architecture (Lambda, Bedrock, DynamoDB, S3, API Gateway) designed for horizontal scaling and cost efficiency.
- **Technologies:** React.js, AWS (Lambda, Bedrock, DynamoDB, S3, API Gateway), RAG, JavaScript.
- **Key Learning:** LLMs become powerful problem-solving tools when paired with quality data and thoughtful architecture.

### LLM-Powered Log Analyzer – AI-Driven System Intelligence

Personal Project • [github.com/DanielPodolsky/LLM-Powered-Log-Analyzer](https://github.com/DanielPodolsky/LLM-Powered-Log-Analyzer) • November 2025 – November 2025

- *Automated log analysis system that detects anomalies and classifies root causes, reducing manual incident response time.*
- 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.
- **Technologies:** React.js, Node.js, Express, TypeScript, Python, FastAPI, Docker.
- **Key Learning:** Architecture design before implementation leads to better code structure, easier debugging, and fewer rewrites.

### Portfolio Website – AI-Powered Developer Portfolio

Personal Project • [danielpodolsky.dev](https://danielpodolsky.dev) • November 2025 – Present

- *Developer portfolio with an AI assistant enabling recruiters to explore relevant background and projects through natural conversation.*
- Built RAG pipeline with Pinecone vector database and OpenAI, delivering real-time streaming responses via Vercel AI SDK.
- Developed React 19/TypeScript frontend implementing code splitting via React.lazy/Suspense.
- Deployed serverless Vercel functions with Upstash Redis rate limiting for production reliability.
- **Technologies:** React 19, TypeScript, Vite, Tailwind CSS, OpenAI, Pinecone, Vercel AI SDK, Upstash Redis.
- **Key Learning:** Production RAG accuracy depends more on knowledge base curation than model selection.

## EDUCATION

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### 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

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### 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.*