Daniel Podolsky

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SUMMARY

Full-stack engineer who builds AI-powered applications with thoughtful architecture. I design systems before coding and learn quickly. Driven by strong technological intuition and genuine care for the craft. B.Sc. in Computer Science (89 GPA).

SKILLS

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.
Tools & Practices: Git, GitHub, Design Patterns, Claude Code, ChatGPT, Kiro, n8n.
Languages: Hebrew (Native), English (Professional), Russian (Basic).

PROJECTS

LLM-Powered Log Analyzer - AI-Driven System Intelligence

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

- **Problem Solved:** Manual log analysis can be time-consuming and error-prone. This system automates anomaly detection and root-cause classification, reducing incident response time.
- **Microservices Architecture:** Frontend (React/Vite), Backend (Express/TypeScript), LLM Service (Python/FastAPI).
- **Provider Abstraction:** Implemented Factory Pattern to support multiple LLM providers (OpenAI, Hugging Face) with seamless switching.
- **Statistical Analysis:** Designed custom detection algorithms (error spike detection, error rate analysis) to reduce noise before LLM processing.
- **Infrastructure:** Full Docker containerization with docker-compose orchestration for one-command deployment.
- **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.

MentorHIT - AI-Powered Academic Guidance Platform

2nd Place Winner - Amazon AWS Public Sector Innovation Hackathon · github.com/MentorHIT · May 2025 - September 2025

- **Problem Solved:** CS students lack personalized guidance for academic and career planning. They need advice tailored to their specific performance, interests, and real-time job market opportunities, not generic one-size-fits-all recommendations.
- **LLM Query Flow:** 2-step system combining response planning (understanding the student's context), real-time data gathering (pulling course history, grades, job market data), and customized output generation with prompt engineering.
- **Data Integration:** Implemented RAG (Retrieval-Augmented Generation) to incorporate live course syllabi and job market data. Integrated Bedrock with DynamoDB for dynamic student profile access.
- **Infrastructure:** Serverless AWS architecture (Lambda, Bedrock, DynamoDB, S3, API Gateway) designed for scalability and cost efficiency.
- **Technologies:** React.js, AWS (Lambda, Bedrock, DynamoDB, S3, API Gateway), RAG, JavaScript.
- **Key Learning:** Learned that LLMs aren't just text generators, they're powerful problem-solving tools when paired with good data and architecture. This changed how I think about what's possible to build.

Exify – Browser Extension for Viewing EXIF & C2PA Metadata

Contributor | Production App with 1,000+ Active Users · www.exify.io/

- Contributed to a browser extension that overlays image metadata (EXIF, IPTC, XMP, C2PA) in Chrome, Firefox, and Edge.
- Resolved performance issues through code optimization and debugging.
- Participated in code reviews and team collaboration via GitHub.

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.