

EITAN KATZ

Software Engineer | AI & Backend

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PROFESSIONAL EXPERIENCE

AI Automation Engineer, Chabad Israel

01/2026 – Present | Remote

- Engineered an automated AI agent enabling seamless WhatsApp communication between community members and the organization's CRM.
- Developed and managed custom Model Context Protocol (MCP) servers in TypeScript to execute read/write actions directly against the CRM database.
- Architected and orchestrated complex conversational logic and API routing using n8n workflow automation.

NOC Engineer (Shift Leader - Tier 1), Global-e

07/2025 – Present | Petah Tikva, Israel

- Lead incident response for high-severity production events, including global checkout failures, security risks, and fraud alerts in a massive-scale e-commerce environment.
- Direct shift operations, mentor junior team members, and manage cross-departmental communications during critical outages.
- Diagnose complex system failures by analyzing application logs and telemetry data using Datadog, Grafana, and Coralogix.
- Execute diagnostic MSSQL queries and validate API data integrity via Postman to accelerate bug isolation and resolution with R&D teams.

EDUCATION

B.Sc. in Computer Science, The Academic College of Tel Aviv-Yaffo

2023 – 2026

TECHNICAL SKILLS

Languages — Python, TypeScript, Java, C++, C#, SQL, JavaScript, C

Backend & Cloud — FastAPI, Node.js, Tomcat, .NET Framework, Docker, REST APIs, MCP

Frontend — React, JavaFX, WinForms

Databases — PostgreSQL, MSSQL, Redis, Supabase

AI & Vision — n8n workflow automation, Gemini API, SAM, Stable Diffusion, Hunyuan3D-2.1, OpenCV

DevOps & Tools — Datadog, Grafana, Coralogix, Git/GitHub, Cursor, Linux/POSIX

SELECTED PROJECTS

AVRoom

using Python, FastAPI, React, TypeScript, PostgreSQL, Docker, GenAI

- Architected an AI-driven interior design workspace allowing users to dynamically segment, remove, and convert 2D objects into manipulatable 3D meshes.
- Built an asynchronous AI pipeline integrating Segment Anything (SAM) for depth/RGB masking, Stable Diffusion and LaMa for inpainting, and Hunyuan3D-2.1 for novel-view synthesis.
- Implemented an automated QA verification loop utilizing the Gemini API to analyze inpainting results and dynamically adjust generation prompts.

S-Language Cloud Interpreter

using Java, JavaFX, Tomcat, XML

- Developed a full-stack interpreter ecosystem featuring a custom engine to execute S-Language functional scripts.
- Built a visual debugging client in JavaFX enabling step-by-step execution, real-time memory state visualization, and variable inspection.
- Designed a collaborative cloud environment on a Tomcat server to store execution histories and facilitate code sharing.