

ROM SHEYNIS INFORMATION SYSTEMS AND SOFTWARE ENGINEERING

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SUMMARY

System-focused Automation and Software Test Engineer with strong proficiency in Python and Object-Oriented Programming. Experienced in analyzing complex system behavior, defining structured evaluation criteria, and building repeatable automated workflows to validate reliability and edge cases. Skilled in protocol-level troubleshooting using Linux tools and Wireshark, with hands-on experience across backend services, APIs, and infrastructure. Motivated to contribute to system analysis and the design of clear data flows, functional behaviors, and operational transparency for high-impact production systems.

PROFESSIONAL EXPERIENCE

Research Assistant (LLM & AI) | CBG Labs

- Designed structured evaluation protocols to assess system robustness, consistency, and safety behavior under adversarial conditions
- Built automated multi-agent test harnesses in Python to validate system behavior across stress scenarios and edge cases
- Developed repeatable testing workflows and analysis outputs to support systematic validation and comparison
- Executed automated experiments and summarized results to support engineering and research decision-making

03/2025 – 08/2025

BIM Automation Developer | 360 Program, Civil & Environmental Engineering Dept.

- Architected an AI-based assistant for querying Revit models using natural language, with emphasis on reliability and validation
- Designed and implemented C# middleware (“Semantic Wrappers”) to interface with LLMs and reduce incorrect or non-compliant outputs by ~90%
- Implemented RAG-based pipelines and spatial reasoning logic to support automated regulatory compliance checks

10/2025

EDUCATION

B.Sc in Information Systems Engineering, Ben Gurion University

2022 – 2026

GPA: 85

Relevant Courses: Object Oriented Programming, Data Structures, AI, ML, Cybersecurity & Network Defense

SKILLS

Programming Languages

Python, Java, JavaScript, C, C++, Bash, SQL

AI & ML Engineering

LangChain, AutoGen, RAG Pipelines, OpenAI APIs, MCP , Embeddings, Multi-agent Orchestration, Pydantic

Backend & APIs

Node.js, Express.js, FastAPI, Flask, RESTful API Design, PostgreSQL, MySQL

Frontend

Vue 3

Data Processing

Pandas, BeautifulSoup

DevOps & Infrastructure

Docker, Kubernetes, Railway, Airflow, Terraform, AWS (EC2, Lambda, S3, Bedrock)

CI/CD

GitHub actions

Tools & Monitoring

Git, Linux, Wireshark, Postman, Design Patterns

PROJECTS

Full-Stack Recipe Management Platform

- Developed a full-stack recipe app (Vue 3, Node.js/Express, MySQL/PostgreSQL) with Spoonacular API, secure auth, advanced search/filtering, favorites, personal recipe management, and Dockerized backend.

Link ↗

Study Pal - AI-Driven Multi-Agent Study Assistant

- An intelligent learning companion built with LangGraph and a multi-agent architecture. Delivers personalized tutoring with RAG, analyzes learning gaps, plans future sessions, and provides motivational guidance in an automated, adaptive workflow.

Link ↗

ARMY SERVICE

Avionics Technician, Nevatim Air Base, Israeli Air Force

2017 – 2019

- Maintained avionics, navigation, and communication systems to ensure aircraft readiness.
- Provided technical support for mission-critical systems.
- Completed Commanders' Course; led and trained an avionics technician team.

Languages

- English - Highly Proficient
- Hebrew - Native
- Russian - Conversational