

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**03/2025 – 08/2025
 - 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
- BIM Automation Developer | 360 Program, Civil & Environmental Engineering Dept.**10/2025
 - 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

EDUCATION

B.Sc in Information Systems Engineering, Ben Gurion University2022 – 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
- Backend & APIs**
Node.js, Express.js, FastAPI, Flask, RESTful API Design, PostgreSQL, MySQL
- Data Processing**
Pandas, BeautifulSoup
- CI/CD**
GitHub actions
- AI & ML Engineering**
LangChain, AutoGen, RAG Pipelines, OpenAI APIs, MCP , Embeddings, Multi-agent Orchestration, Pydantic
- Frontend**
Vue 3
- DevOps & Infrastructure**
Docker, Kubernetes, Railway, Airflow, Terraform, AWS (EC2, Lambda, S3, Bedrock)
- 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 Force2017 – 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
 - Russian - Conversational
- Hebrew - Native