ROM SHEYNIS INFORMATION SYSTEMS AND SOFTWARE ENGINEERING

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SUMMARY

Software Engineer specializing in production-grade AI systems, retrieval-augmented generation (RAG), and reliable agent-driven analytics workflows. Strong Python proficiency with hands-on experience designing multi-agent systems, evaluation frameworks, and secure tool-augmented LLM pipelines. Experienced with SQL-based data systems (PostgreSQL/MySQL), MongoDB, backend development, and modern infrastructure tooling (Docker, Kubernetes, Terraform, AWS).

PROFESSIONAL EXPERIENCE

Research Assistant (LLM & AI) | CBG Labs   03/2025 – 08/2025
- Designed structured evaluation frameworks to assess system robustness, latency, and safety under adversarial conditions
- Built automated Python test harnesses to validate behavior across edge cases and stress scenarios
- Developed repeatable testing workflows and analytical outputs to support systematic engineering comparisons
- Executed automated experiments and summarized results to guide research and development decision-making

BIM Automation Developer | 360 Program, Civil & Environmental Engineering Dept.   10/2025

- Architected an AI-powered assistant enabling natural-language interaction with complex Revit models
- Built a conversational interface triggering Revit API operations through tool-based orchestration
- Designed and implemented C# middleware ("Semantic Wrappers") improving reliability and reducing incorrect outputs by ~90%
- Implemented grounding pipelines and spatial reasoning logic supporting automated compliance validation

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

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

Data Processing
Pandas, BeautifulSoup

CI/CD
GitHub actions

Databases
PostgreSQL, MySQL, MongoDB

AI & ML Engineering
LangChain, LangGraph, AutoGen, OpenAI APIs, RAG PipelinesEmbeddings, Multi-Agent Orchestration, Pydantic

Frontend
Vue 3

DevOps & Infrastructure
Docker, Kubernetes, Terraform, AWS (EC2, Lambda, S3, Bedrock)GitHub Actions, Linux

Tools & Monitoring
Git, Linux, Wireshark, Postman, Design Patterns

PROJECTS

Full-Stack Recipe Management Platform
- Developed a full-stack recipe application (Vue 3, Node.js/Express, MySQL/PostgreSQL) integrated with Spoonacular API
- Implemented secure authentication, advanced search/filtering, favorites, personal recipe management, and Dockerized backend deployment
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
- Russian - Conversational
- Hebrew - Native