

# ROM SHEYNIS

## INFORMATION SYSTEMS AND SOFTWARE ENGINEERING

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### SUMMARY

Fourth-year Information Systems Engineering student with hands-on experience in backend development. Strong foundation in computer science and software engineering, with a growing focus on AI systems and intelligent agents. Actively learning through online courses, webinars, and tech conferences to stay current with advances in agent-based architectures and practical AI applications. Team-oriented, detail-driven, and passionate about building reliable, maintainable software.

### PROFESSIONAL EXPERIENCE

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#### Research Assistant (LLM & AI) | Ben Gurion University 2025 March - 2025 August

- Researched LLM behavior under adversarial prompts, jailbreaks, and stress tests
- Built multi-agent simulations to test robustness, prompt injection, and memory manipulation
- Developed evaluation protocols for safety, consistency, and refusal
- Utilized Python, AutoGen and OpenAI tools
- Applied advanced prompt engineering to test and manipulate LLM behavior

#### Clean room engineer | Quantum Clean Global - Israel 2019 -2021

- Handled high-value Intel semiconductor components in a clean room, ensuring usability via precise micro-cleaning and repairs.

### PROJECTS

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#### 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/filter, 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. It delivers personalized tutoring with RAG, analyzes learning gaps, plans future sessions, and provides motivational guidance, all in a fully automated, adaptive workflow. [Link](#)

### 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
- **Tools & Monitoring:** Git, Linux, Wireshark, Postman, Design Patterns

### EDUCATION

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#### B.Sc in Information Systems Engineering | Ben Gurion University | GPA: 85 2022 - 2026

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

Udemy Courses: Machine Learning, The Web Developer Bootcamp 2024, LLM Engineering

### ARMY SERVICE

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#### 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.

#### Commanders Course 2018

- Certified to lead and manage a team of avionics technicians

### ADDITIONAL INFORMATION

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- **Languages:** English, Hebrew, Russian