

# SHAI SHILLO

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## PROFILE

Software Engineer with full-stack and backend expertise, experienced in building AI-driven automation and scalable cloud systems. At Siftt.AI I led the creation of an extraction backend—document-processing pipelines, FastAPI microservices in Docker on GCP, and PostGIS-powered persistence. Formerly mentored students in software engineering best practices.

## SKILLS

**Programming:** Python, C++, JavaScript, Java, Kotlin | **Frameworks:** Node.js, Express.js, React, PyTorch, OpenCV  
**Databases:** MongoDB, MySQL (asyncpg, Flway, PostGIS), PostgreSQL | **Tools:** Docker, Kubernetes, Git, Linux, Bash, Android, Swagger, FastAPI, Uvicorn, GCP, Co-pilot, Gemini/Claude CLI | **Practices:** Agentic Systems (OpenAI API, Gemini API, Claude), Agile, OOP, RESTful APIs, WebSockets, JWT authentication, event-driven programming

## PROJECTS

- [ParkerAI – Smart Parking System](#): (Node.js, Python, MongoDB) Developed an ML-powered parking system using PyTorch & OpenCV. The solution predicts parking availability, reducing search time and improving efficiency.
- [Campus-Nav](#): (Three.js, QGIS2threejs, IndexedDB) Created a 3D interactive campus map with real-time tracking and searchable POIs. This enhanced navigation and engagement on campus.
- [MERN Stack Admin Dashboard](#): (React, Material UI, Node.js, MongoDB) Built a responsive admin dashboard with dynamic analytics and data visualization. Streamlined administrative tasks through efficient design.
- [Daily Cost Manager](#): (Node.js, Express, MongoDB) Developed a RESTful API-based web service for managing daily expenses. Enabled effective budgeting and cost tracking with intuitive categorization.
- [Fitness Training App](#): (Android Kotlin, MVVM) Built a fitness app for Android to manage workout routines with exercise search, custom workouts, progress tracking, and alarms. Leveraged MVVM architecture for robust, maintainable code and integrated with a backend API for data synchronization.

## WORK EXPERIENCE

### Siftt.AI — Software Engineer, Backend (2025–Present):

Architected and built the AI extraction backend from scratch:

- Designed Google ADK (Agent Development Kit) pipelines to parse and structure CRE (RE - Real Estate) PDFs into JSON.
- Developed FastAPI services and REST endpoints for orchestrating subagents and managing extraction workflows.
- Containerized applications with Docker and deployed to GCP Cloud Run; configured Logging for observability.
- Provisioned PostgreSQL (Flyway migrations, PostGIS) on a dedicated GCP VM, ensuring robust data persistence.

### H.I.T. (Holon Institute of Technology) – Academic Practitioner & Student Union Coordinator (2023–2025):

- Served as a Software Engineering practitioner, instructing students in work methodologies, Java fundamentals, design patterns, and best practices in Git & CI/CD.

### AIG – Customer Service & Sales (2015–2021):

- Promoted through roles from Shift Manager (Customer Division) to Senior Team Specialist, to Field Agent.
- Trained employees in customer service and product knowledge, mentored sales teams to improve performance.

## EDUCATION

### B.Sc. in Computer Science, H.I.T. (2021–2024) – GPA: 94.85, Graduate **cum laude**, named to President's List. Courses:

Algorithms, Data Structures, Advanced Programming |

Awards: “Engineering the Future” Scholarship (Motorola Solutions), Rupin Mentoring Scholarship, Holon Municipality Scholarship – received for outstanding academic performance

## LANGUAGES

English – Fluent | Hebrew – Native