

Shahaf Shavit

EXPERIENCE

Secantix.com, *Founding Engineer*

November 2025 - Present

Engineered a closed-source machine vision and automated motion control system for high-throughput medical vial identification; admitted to the **Road2 Accelerator Program** (NVIDIA & Mati).

Developed low-level C++ ESP32 firmware to orchestrate NEMA steppers, achieving sub-millimeter positional accuracy for dynamic optical environments.

Implemented Python/OpenCV computer vision pipelines integrating IMX477 sensors, utilizing Laplacian and DCT focus-metrics alongside strict centroid-distance calibration to eliminate bias offsets and maintain exact measurement tolerances of $\pm 0.05\text{mm}$.

Architected a secure, scalable edge-to-cloud telemetry and remote device management infrastructure using AWS IoT Core.

Easy.co.il, *Remote/Hybrid, Part Time Jr. SW Developer*

March 2025 - Present

Owned end-to-end development of an internal data enhancement tooling ecosystem, standardizing ingestion, sanitization, and export features across 25+ data sources.

Reduced data processing turnaround time from days to sub-hour ranges, using in-browser js automations, GCP integration and Firestore cloud DB for human-in-the-loop automation pipelines.

Collaborated directly with the VP of R&D to align architectural priorities, incorporate feedback, and streamline system deployments.

LEADERSHIP & INSTRUCTION

Ruppin Programming Club, Director

August 2025 - Present

Directed a team of student engineers in an industry partnership with KabatOne/CityShob, overseeing the end-to-end development and delivery of 4 software products across two semesters, while organizing a campus-wide hackathon.

Technical Instructor, Ruppin Academic Center & Shchackim College

2022 - 2025

Taught Python, C#, Math, and Physics to high-performing high school students and pre-academic program attendees.

Emek Hefer, Israel

(054) 522 0947

shavitshahaf@gmail.com

linkedin.com/in/shahaf-shavit/

github.com/ShahafShavit/

shahafshavit.com/

SKILLS

Languages: Python, C, C++, C#, Javascript/Typescript (React), SQL, Bash, PowerShell.

Infrastructure & Cloud: AWS (IoT Core, S3, CF, R53, ECS, EC2), Linux, Docker, GitHub Actions, GCP.

Hardware & Tools: STM32, ESP32, RPi, IMX477, NEMA Steppers and Marlin firmware.

LANGUAGES

Full proficiency in English/Hebrew – native level.

PROJECTS

Rydo - Full-Stack/Geospatial

Developed a Waze-style route planning and social navigation mobile application for off-road bicycles, integrating React, Mapbox GL, Live riding and custom GPX data classification and algorithms.

F.A.S.T PDF - C#/Windows

Implemented core features in C# for a Windows desktop tool currently in commercial use at lahat-eng.co.il, focusing on batch processing and signature workflows.

FinComp (OSS) - Python/React/Sqlite3

Developed a private localized personal finance compiler using Selenium and pandas for deep analytics and pattern recognition of financial behaviour.

EDUCATION

Computer Science, Ruppin Academic Center

October 2023 - August 2026

GPA: 88.75 (Excellence Diploma, First Year Honors).

Note: Maintained academic standing while serving 280+ days in Miluim.