Eyal Cohen

Backend Developer | Python

Contact

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About me

Backend developer with hands-on experience building Python and Flask-based APIs for real-time and embedded systems. Experienced in system integration and applying AI models to image and acoustic data pipelines. Strong Linux background with a production-oriented mindset.

Skills

- **Languages:** Python (primary), C, Bash, MATLAB
- **Backend:** Flask, REST APIs, Linux
- **Databases:** MySQL, MongoDB
- **DevOps & Tools:** Git, Docker
- **Embedded:** Microcontrollers, real-time systems (Raspberry pi, STM32, ESP32)
- **Cloud:** AWS (EC2, S3)

Languages

Hebrew – Native
English – Fluent

Experience

May 2023 – Present
Developer, Underwater Acoustic & Navigation Lab - Univ. of Haifa

- Developed Python and Flask-based APIs supporting real-time underwater systems used in ongoing academic and applied research.

- Integrated internal lab systems into existing oceanographic products, improving cross-system data flow and operational reliability.

- Designed and implemented embedded acoustic systems using microcontrollers for underwater acoustic experiments.

- Applied AI models for image and acoustic signal analysis as part of research-grade data processing pipelines.

Education

2021 – 2025
B.Sc. Software Engineering – Ort Braude, Karmiel

- Relevant coursework: Operating Systems, Databases, Networking, Embedded Systems

Military Service

2015 – 2018
IDF Navy | Radar Technician Course Commander

- Led and trained technical teams in advanced radar systems. Responsible for system-level instruction and operational readiness.