



# Eyal Cohen

## Backend Developer

### Contact

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### Professional Summary

Backend Developer with hands-on experience building Python-based backend services and RESTful APIs. Experienced in designing, developing, and maintaining production backend systems, integrating SQL / NoSQL databases, deployed services in Linux-based and cloud environments. Strong background in system integration, data pipelines.

### Technical Skills

- **Languages:** Python (primary), C, Bash, MATLAB
- **Databases:** MySQL, MongoDB, schema design
- **DevOps & Tools:** Docker, Git, Linux, CI/CD pipelines, deployment workflows
- **Cloud:** AWS EC2, S3
- **Concepts:** Backend services, data pipelines, system integration, OOP

### Languages

Hebrew – Native

English – Fluent

### Experience

May 2023 – Present

**Backend Developer (Python / Flask), Underwater Acoustic & Navigation Lab - Univ. of Haifa**

- **Developed**, deployed, and maintained RESTful backend services using Python and Flask, including API design, request handling, data validation, database integration.
- **Integrated** AI-based data processing components into backend pipelines for image and acoustic signal analysis using Pytorch, Tensorflow and YOLO.
- **Integrated** backend systems and data pipelines across multiple internal services, improving system interoperability, reliability, and maintainability.
- **Collaborated** with embedded systems to support backend integration for real-time data collection and processing.
- **Implemented** basic unit tests for backend components to improve reliability.
- **Took** ownership of backend services end to end. Considered performance, scalability, and reliability for production environments.
- **Worked** with cloud-based backend services using AWS EC2 and S3 in Linux environments.

### Education

Graduated: 2025

**B.Sc. Software Engineering – Ort Braude, Karmiel**

### Military Service

2015 – 2018

**IDF Navy | Radar Technician Course Commander**

- Led and trained technical teams, responsible for system-level operations, troubleshooting, and operational readiness.