



# 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 using Flask. Experienced in designing, developing, and maintaining production backend systems, integrating SQL and NoSQL databases, and deploying services in Linux-based and cloud environments. Strong background in system integration, data pipelines, and backend reliability.

### Technical Skills

- **Backend:** RESTful API development, Flask, API authentication, request validation, error handling, logging.
- **Languages:** Python (primary), C, Bash, MATLAB
- **Databases:** MySQL, MongoDB, SQL queries, schema design
- **DevOps & Tools:** Docker, Git, Linux, basic 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, error handling, and database integration.
- 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.
- Integrated AI-based data processing components into backend pipelines for image and acoustic signal analysis.
- Implemented basic unit tests for backend components to improve reliability.
- Took ownership of backend services from development through integration in production environments.
- Considered performance, scalability, and reliability when designing backend services 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.