

# Oriel Malik

Backend developer - 0587306070 – Tel Aviv

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## PROFESSIONAL SUMMARY

Detail-oriented Backend Developer (B.Sc. Software Engineering) with hands-on experience in Java & Python microservices, REST/GraphQL APIs, clean code, and end-to-end system design. Strong in OOP, algorithms, secure practices, reactive programming, and scalable deployments.

## Education

**2020 - 2024, Afeka College of Engineering**

**B.Sc. in Software Engineering (GPA:80)**

Specialization: Cybersecurity (Zero Trust, Cloud Computing, Cryptography).

## Experience

**2024–2026, Backend Developer (R&D Unit), Afeka College of Engineering**

- Developed a scalable backend system for user-expert matching.
- Designed REST APIs and complex relationships using PostgreSQL (R2DBC), Neo4j, Spring WebFlux.
- Deployed via Docker & Render; focused on clean, reliable code.
- System later adopted and expanded by Afeka's R&D Unit for industrial use

**2021 – 2023, Science and Technology Israel Office, Tel-Aviv Israel, Teacher**

Designed and delivered advanced CS curriculum including algorithms, OOP and WPF desktop projects. Mentored 11th-12th graders on final projects (many achieved 90+ grades)

## Projects

**Enterprise Organization Microservices System**

- Built microservices for complex nested organizational structures (units → departments → employees).
- Implemented 4 architectures: JPA/PostgreSQL, Reactive WebFlux/MongoDB, Kotlin, GraphQL + Spring Boot.
- Included REST/GraphQL APIs, Gradle, JUnit, Docker Compose.

**McpMathHoly**

- Built a clean, modular FastApi backend as foundation for MCP (Model Context Protocol) server with AI tool integration.
- Implemented extensible architecture: tool registration, separation of concerns, design patterns for maintainability and scalability.
- Used Python, FastApi, FastMCP. Includes models, utilities, tests, and placeholder math modules.

## Technical skills

Python • Java • Spring Boot/WebFlux • FastAPI

• Flask • PostgreSQL • MongoDB • Neo4j • Docker • Git • REST/GraphQL • Reactive Programming • OOP • Secure Coding • Linux • AI Tools (Grok, ChatGPT, Hugging Face)

Hebrew (Native) | English (Fluent)