Ester Ovrani - Software Engineer
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Profile:

Responsible, planned, creative and has a "big head", likes to learn new things and challenge myself.
Excellent communication skills and interpersonal relations.

Professional Experience:

- **Developed a system enabling computer interaction via eye movements**.
  Technologies used: **Python, Machine Learning, Algorithms** (using advanced libraries: **OpenCV, Mediapipe, SciPy, NumPy, Tkinter**).
  This project was selected by the Ministry of Education as the leading project
  and presented at the National Project Mentors Conference.

- **Student Management System Development with Microservices Architecture:**
  Developed a comprehensive REST API for student management including full CRUD operations, advanced filtering, pagination, and sorting. The system features AWS S3 file management, asynchronous SMS service, JWT authentication, and PostgreSQL database integration.
  Technologies used: **Java (Spring Boot), PostgreSQL, Docker, AWS, JWT, Swagger, REST APIs, JPA/Hibernate, Postman/Newman, Jenkins CI/CD.**

- **Billing System Development for Gan Shmuel Industries:**
  Worked in the Billing team within a microservices-based architecture supporting a juice company. Developed a system to calculate and generate supplier invoices based on truck weights, supplier-specific rates, discounts, and product types. Implemented pricing file upload functionality to automate and accurately determine charges per supplier and shipment.
  Technologies used: **Python (Flask), React, Elasticsearch, Docker-Compose, Nginx, Git, GitHub, Microservices.**

- **TinyURL Service - High Scale Big Data System:**
  Built a URL shortening service with Redis caching, MongoDB user management, and Cassandra for click analytics. Implemented algorithm for generating unique short codes and redirect functionality with performance tracking.
  Technologies used: **Java (Spring Boot), Redis, MongoDB, Cassandra, Docker, RESTful APIs.**

- **Mini-Google Search Engine - Batch Processing System:**
  Developed a web crawler with Elasticsearch integration for search capabilities. Used Map-Reduce processing and Kafka for distributed workload management and asynchronous data processing.
  Technologies used: **Java (Spring Boot), Kafka, Elasticsearch, Web Crawling (Jsoup), Docker.**

Tools and Technologies:

- **Desktop Development:** Java, Python, C#, C/C++.
- **Web Development:** HTML5, CSS3, JavaScript, Bootstrap, React + Redux, Node.js, ASP.Net (Core), Spring Boot, RESTful APIs.
- **Databases:** PostgreSQL, SQL Server, MongoDB, MySQL, Elasticsearch, Redis, Cassandra, Access, ADO.NET, Entity Framework, JPA/Hibernate.
- **Cloud & DevOps:** AWS, Docker, Docker Compose, Kubernetes, Jenkins CI/CD, Nginx, HTTP networking.
- **Message Queues & Streaming:** Kafka, Reactive Programming (WebFlux).
- **Authentication & Security:** JWT, Spring Security, Swagger/OpenAPI.
- **Testing & API Tools:** Postman, Newman, JUnit, Actuator.
- **Development Environments & Tools:** Visual Studio, VSC, IntelliJ, Eclipse, PyCharm, Git, GitHub, Jira.
- **Operating Systems:** Windows 7-8-10-11, Linux, Bash.
- **Additional Topics:** Multithreading, Machine Learning, Networks, System Analysis, Communication Systems, Microservices Architecture, Web Scraping, Regex, Mathematics, Linear/Boolean Algebra, Discrete Statistics, Algorithms and Data Structures, Operating Systems.

Education:

- **2020-2024:** Studies for the degree of software engineer Ministry of Education. **GPA: 93**.
- **2020-2024:** Ultra-Code Course by Kama-Tech.
- **2024:** Business English course by Mafteach organization.
- **2024:** Udemy – Deep JS course
- **2025:** AcademyOcean – Technical Training
- **2025:** Coding Bootcamp - Java development with Spring Boot

Language:

Hebrew - Native   English – Fluent