

Ori Baruch

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Software Engineer

Software Engineer with strong foundations in algorithms, data structures, object-oriented design, and backend system design fundamentals. Builds backend services in Java and Python, designs RESTful APIs, and writes clean, maintainable code. Hands-on experience with data pipelines and machine learning systems. Fast learner with strong problem-solving skills.

SKILLS

Programming Languages: Java | Python | C | TypeScript | JavaScript | Kotlin

Backend & Data: Node.js | Express | REST APIs | PostgreSQL | MongoDB | SQL | ETL Pipelines

Frontend & Tooling: React | HTML | CSS | Docker | Git | Swagger

EDUCATION

B.Sc. Software Engineering

2021 – 2025

Afeka College of Engineering

Tel Aviv, Israel

- GPA 88, specializing in Machine Learning and AI.

PROJECTS

Real-Time Multiplayer Game Web Application

2025

GitHub: [LINK](#)

- Designed and developed a full-stack real-time multiplayer Tic-Tac-Toe application using React (TypeScript), Node.js, Express, Prisma, and Swagger
- Implemented server-authoritative state management and validation logic, preventing invalid moves and ensuring consistent gameplay across 10+ concurrent sessions (concurrency) while maintaining consistent state synchronization, preventing invalid game states
- Designed RESTful CRUD APIs and backend services for game grids and move history, supporting efficient state queries and batch cleanup operations
- Structured backend code with clear separation of concerns, improving readability and long-term maintainability

Unsupervised Fine-Tuning of ECAPA-TDNN for Arabic Speaker Verification

2024 – 2025

GitHub: [LINK](#)

- Designed and implemented 6 unsupervised adaptation pipelines for ECAPA-TDNN, achieving a 38% reduction in Equal Error Rate (EER) under low-resource conditions
- Built a custom Arabic speaker verification dataset using Hugging Face
- Designed Python-based data pipelines for ingestion, preprocessing, and ETL
- Implemented data validation and experiment tracking to ensure reproducibility and reliability

WORK EXPERIENCE

Assignment Evaluator

2024 – 2025

Afeka College of Engineering

Tel Aviv, Israel

- Reviewed and evaluated 400+ ML and AI code submissions, assessing algorithmic correctness, computational efficiency, and software design quality
- Provided structured, actionable feedback on code correctness, efficiency, and design, improving student understanding of ML concepts and coding best practices
- Enforced consistent evaluation standards across multiple course iterations, improving grading reliability and feedback quality at scale

ADDITIONAL INFORMATION

Languages: Hebrew - Native, English - Fluent

Interests: Personal development, gaming, physical training