Yaroslav Lenerman

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Backend Developer with a strong academic foundation and hands-on experience building scalable, production-grade systems. Proficient in Python, Java, C, and TypeScript, with deep expertise in backend architecture, RESTful API design, and relational database modelling. Demonstrated ability to design secure, high-performance services, work with asynchronous and distributed systems, and collaborate across the full stack. Mission-driven engineer with a passion for building robust backend platforms that support reliable, maintainable, and scalable applications.

Experience – Projects:

- Clinic **SaaS** Multi-tenant: **React/FastAPI** multi-tenant clinic management system with patient management, appointment scheduling, analytics dashboard, **JWT** authentication, **Redis**-based background job processing, and async tenant isolation architecture designed for horizontal scalability,
- ARCIS – Augmented Reality Combat Information System (Final Project): Real-time weapon detection system with **React** frontend, **Python** backend, **Redis** message broker/caching layer, **RESTful API** architecture, and **PostgreSQL** database for combat environment monitoring.
- Business/Supermarket Managers: **CLI** management systems in **C** with efficient binary file operations, memory management, and optimized data persistence layer.
- Pacman-game: **AI**-powered Pac-Man in **C++/OpenGL** demonstrating **BFS**, **A***, and risk-based pathfinding **algorithms** with algorithmic optimization.

Education

- Degree - Afeka Tel-Aviv Academic College of Engineering – B.Sc. Computer Science, 2020 -2024,
  � Created the best POC final project.
- Diploma – ORT college - Electronics Practical Engineer, Navi Special program. 2011-2013

Military Service (2013-2016): Secret service unit in IDF

Directed high-readiness operational unit, overseeing deployment and integrity of mission-critical systems. Technical authority for C/Assembly codebases ensuring optimal performance. Managed system deployment with continuous high availability, rapid troubleshooting, and incident resolution. Commanded and mentored specialized personnel in mission-driven culture.

Areas of Expertise:

Backend & APIs: Python | FastAPI | RESTful APIs | JWT Authentication | Arcjet (Rate Limiting) | Async/Await Patterns | Multi-tenant Architecture | Background Job Processing.
Frontend & Frameworks: React | TypeScript | Vite | Vanilla JS | Firebase/Supabase.
Databases & Data: PostgreSQL | MySQL | Supabase | Redis (Message Broker/Caching) | Database Design & Optimization | Query Optimization.
Infrastructure & DevOps: Cloud Deployment (Vercel/Railway) | Linux (bash) | Git/Github | API Testing (Postman) | System Architecture.
Testing & Quality: Jest | Cypress | Test-Driven Development (TDD) | Postman | API Testing.
Additional: Java | C & Assembly | Machine Learning | Computer Vision | Embedded Systems (Jetson Nano/Raspberry Pi)

Languages:

English (C1 - Advanced), Hebrew (C2 - Mastery), Russian (Mastery)