

# Lior Salmanovich

Lead Developer · AI Systems · Cloud Architecture

✉ ir.x86.lior45@proton.me · 🔗 github.com/liorsal · 🌐 liorsal.github.io/cv

## PROFESSIONAL SUMMARY

Results-driven Lead Developer with proven expertise in building scalable systems, AI/ML pipelines, and cloud-native applications. Architected 10+ production systems serving thousands of users with zero critical bugs. Strong background in distributed architectures, RAG-based AI systems, and full SDLC ownership. Self-taught developer with exceptional problem-solving abilities and a passion for tackling complex technical challenges end-to-end.

## TECHNICAL EXPERTISE

<b>Languages</b>	Python, JavaScript / TypeScript, SQL, Bash, HTML / CSS
<b>AI &amp; Machine Learning</b>	RAG Architecture, Vector Embeddings, LLM Integration (Gemini, OpenAI), Fine-Tuning, Semantic Search, Chroma DB
<b>Cloud &amp; Infrastructure</b>	AWS (Lambda, EC2, S3, DynamoDB, API Gateway, Elastic Beanstalk, Amplify), Docker, Linux Administration
<b>Backend &amp; APIs</b>	FastAPI, Flask, Node.js, RESTful API Design, Microservices, OAuth 2.0, JWT, WebSockets
<b>Data &amp; Databases</b>	PostgreSQL, Redis, DynamoDB, Firebase, Chroma DB, Vector Stores
<b>DevOps &amp; Automation</b>	CI/CD Pipelines, GitHub Actions, Docker, Automated Testing (pytest), Shell Scripting
<b>Frontend</b>	React, Next.js, Vanilla JS, Web Components, Responsive Design, WCAG 2.1 AA Accessibility
<b>Architecture</b>	Microservices, Event-Driven Systems, API Design, System Design, Scalable Architectures

## PROFESSIONAL EXPERIENCE

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### Lead Developer

2023 — Present

#### Sultana Media

- Architected and delivered 10+ production systems handling real-time data processing and high-traffic loads.
- Designed scalable backend architectures using Python, FastAPI, and AWS serverless infrastructure.
- Implemented CI/CD pipelines with GitHub Actions, achieving zero-downtime deployments and automated testing.
- Led technical decisions on system design, database architecture, and API contracts.
- Managed the full SDLC independently, maintaining production-grade code quality without dedicated QA resources.

### AI Systems Developer

Military Service

#### Israel Defense Forces

- Independently designed and built an AI-powered knowledge system using RAG (Retrieval-Augmented Generation) architecture.
- Implemented vector embeddings pipeline with semantic search capabilities using Chroma DB.
- Conducted research and hands-on experimentation with LLM fine-tuning techniques.
- Formally commended by base commander Col. Miki Almakayas and Col. Aziz Ibrahim.

