Aviv Assayag

Backend Software Engineer | Distributed Systems

055-663-1595
2004aviv@gmail.com
aviv-assayag

Professional Summary

Software Engineer with 4 years of experience building high scale C4I systems, microservices, and automated DevOps pipelines. Specialized in distributed systems, performance optimization, and technical leadership. Passionate about simplifying complex systems, and **leveraging AI to build smarter software.**

Professional Experience

Tech Leader *R&D Team, Israeli Navy | Jul 2024 – Feb 2026*

- Re-architected microservices infrastructure by implementing threading system and scaling by context, consolidating **22 pods into 8** and **reducing RAM usage by ~48% and CPU usage by ~52%**.
- Deployed a Spring API Gateway integrating SSO and Role-Based Access Control (RBAC) centralizing authentication and authorization, **reducing user management and access control overhead by 80%**.
- Developed an annotation based engine for classifying non-confidential code by eliminating confidential lines pre-compilation, replacing legacy manual workflows and **reducing code duplication by 100%**.
- Mentored junior developer during performance tests, discovering **thousands of redundant I/O** operations.
- Received the **Independence Day Unit Excellence Award** for engineering contributions.
- Led R&D into on-premises **LLM deployment for AI capabilities** in isolated environments.

Software Engineer *C4I Team, Israeli Navy | Jan 2023 – Jul 2024*

- Initiated and managed a Confluence knowledge hub, consolidating **6 resources** into a **single** source of truth.
- Led cross-functional engineering sessions to address core technical debt which **opened 9 new features**.
- Redesigned system architecture and APIs around the system's single source of truth, eliminating costly legacy dependencies and significantly reducing technical debt.
- Eliminated technical debt by designing a centralized state management system that bypassed the need for 3 dedicated OpenShift namespaces **saving 75% in the project resources**.
- **Navy Hackathon Winner**, Led a team of four developers to build a CI/CD automation pipeline featuring dynamic code generation via Jenkins, Helm, Java and Bash scripts **eliminating 100% of the boilerplate**.

Software Engineer *C4I Team, Rafael | Apr 2022 – Nov 2022*

- Engineered a mission critical R&D system from scratch as both a production service and the organizational model for microservices development
- Architected core components and integrated dynamic rules engine to evaluate real-time operational logic.
- Engineered a flexible database layer to seamlessly integrate client's data structures using NestJS.

Education

IDF OJT, Magshimim & Magshimim+ | Elite Cyber Security & Software Engineering Training Program.

Skills

Java, Groovy, C/C++, Python, .NET, Node.js, TypeScript, SQL, Assembly, Bash | Spring, ASP.NET, NestJS, Angular | Docker, OpenShift, Helm, Kubernetes, Jenkins, Linux, Git | Kafka, RabbitMQ, MongoDB, PostgreSQL, Elastic (ELK), Redis, RESTful APIs, WebSockets, API Gateway. | AI Agents, OpenAI Codex, Claude | Cybersecurity