GUY NAVON

Software Engineer | Backend & Full Stack | Python, React, TypeScript

Israel | +972-50-882-2585 | gunavon@gmail.com | linkedin.com/in/guy-navon-dev

Summary

Software engineer with 3 years of experience across a production platform's full stack: Python and FastAPI backend services, MongoDB workflow orchestration, React and TypeScript, and Kubernetes on OpenShift.

Professional Experience

Full-Stack Developer Jan 2024 – Sep 2026

Israel Defense Forces (IDF) – Intelligence Directorate, Unit 9900

- Founding member of the platform team: co-designed and built a shared Python platform for 6+ algorithms from multiple teams, so each team no longer had to build and maintain its own execution infrastructure.
- Cut the time needed to onboard an algorithm or adapt it after a major update from days to hours by standardizing execution, monitoring, and output delivery.
- Developed Python listener, integration, and orchestration services connecting incoming inputs to algorithm execution, and turned feedback from algorithm teams into new platform capabilities.
- Co-designed and implemented MongoDB-backed workflow orchestration that tracks dependent processing stages, advances runs as stages complete, and prevents duplicate processing with status-based locking.
- Owned end-to-end development of the platform's management and monitoring application (React, TypeScript, FastAPI, MongoDB) for run management, access control, execution statistics, and troubleshooting.
- Built GitLab CI/CD pipelines that publish Docker images and deploy services to OpenShift across environments.
- Implemented Kubernetes pod autoscaling for a widely used algorithm and adapted its workloads to available compute.

Projects

Signal Sports – Personalized Sports News App Personal project, ongoing

Python, FastAPI, SQLite, SQLAlchemy, React, JavaScript, Groq (gpt-oss-20b), pytest, Vitest, GitHub Actions

- Built a personalized Hebrew sports news app: a scheduled Python worker ingests articles from multiple sources, ranks them against each user's preferences, and groups duplicate coverage into a single story.
- Combined rule-based classification with an LLM (gpt-oss-20b via Groq) that is called only when the rules' result is weak; its JSON output is validated against allowed values and textual evidence.
- Evaluated feed decisions against hundreds of manually rated articles and ran backend and frontend tests in CI with pytest and Vitest.

Skills

Languages: Python, TypeScript, JavaScript, C#

Backend & Data: FastAPI, REST APIs, WebSockets, workflow orchestration, MongoDB, SQLite, SQLAlchemy, SQL

Frontend: React, Vite, Tailwind CSS

DevOps: Docker, Kubernetes, OpenShift, CI/CD (GitLab CI, GitHub Actions), Git, Linux, Bash

Testing & AI: pytest, Vitest, LLM integration (Groq), LLM output validation

Spoken Languages: Hebrew (native), English (fluent)

Education

IDF Programming Course

Six-month intensive course: object-oriented programming in C#, React and TypeScript development, and MongoDB.