

Jacob Shore

Senior Backend & Platform Engineer | Python · Go · Kubernetes · GitOps

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Python (FastAPI, Flask, Django)

Go (GoFiber)

Kubernetes

GitOps / ArgoCD

Air-Gapped Deployment

Distributed Systems

Technical Leadership

PostgreSQL · MongoDB · Redis

Docker

CI/CD

Node.js

React / TypeScript

PROFESSIONAL SUMMARY

Senior backend and platform engineer with 8+ years building secure, high-reliability distributed systems across backend services, deployment architecture, and platform tooling in cybersecurity, fintech, and regulated infrastructure. Most recently served as hands-on technical lead for a four-engineer pod at a security-focused B2G technology firm — building and shipping backend and deployment systems that run in air-gapped, self-hosted government environments across 60+ countries, where a bad deployment cannot be hotfixed over the public internet. Strongest at the intersection of backend engineering and deployment: distributed services, Kubernetes-based infrastructure, self-hosted deployments, and reliability-first systems. Multilingual: English (native), Hebrew (fluent/professional), Arabic (conversational). Israel-based; open to remote.

PROFESSIONAL EXPERIENCE

Security-Focused Technology Firm — Backend & Infrastructure Engineer, Technical Lead

Jul 2022 - Dec 2025

Tel Aviv, Israel

- Replaced a manual physical-courier government update process with a fully automated remote pipeline — React frontend, Python (FastAPI) and Go (GoFiber) backend, Kubernetes/ArgoCD/GitOps deployment — operating inside air-gapped sovereign networks across 60+ countries, cutting update time from weeks to under an hour.
- Designed and operated the platform deployment architecture across 60+ heterogeneous customer environments: air-gapped Kubernetes clusters, Consul KV for configuration, PostgreSQL and MongoDB for state, Redis for transport — built to roll forward and roll back without external dependencies.
- Served as technical lead for a 4-engineer team with no PM layer — owned architecture, set technical strategy, ran code review, broke down and assigned work, and contributed hands-on code in the core path (Python services, Kubernetes operators, CI/CD pipelines).
- Worked from field requirements relayed by internal customer-service technicians to ship per-deployment adjustments; shipped to production on a quarterly cadence with zero unplanned downtime events.
- Defined engineering standards across testing, deployment, and operational practices for multi-language services running on self-hosted Kubernetes infrastructure under strict security and operational constraints.

IronScales — Backend Engineer

2021 - 2022

Ramat Gan, Israel

- Built and maintained Django-based APIs for a high-availability enterprise cybersecurity SaaS platform serving large commercial clients.
- Collaborated with infrastructure teams on deployment, scaling, and operational concerns for a security-critical system where uptime guarantees had direct customer impact.

DatAlign — Backend & Infrastructure Engineer

2019 - 2021

Beit Shemesh, Israel

- Built Docker-based HIPAA-compliant deployment systems and CI/CD pipelines for regulated healthcare infrastructure — owned the deployment architecture end-to-end.
- Owned the user-facing React frontend end-to-end alongside full backend responsibilities — sole owner of both product layers without a dedicated frontend engineer.

- Introduced infrastructure-as-code practices standardizing deployments across environments; developed Flask backend services emphasizing reliability and operational clarity.

Freelance & Contract Work — Backend / Infrastructure Engineer

2016 - 2019

- Built Docker image templates and deployment-automation pipelines for enterprise clients; implemented containerization and infrastructure automation for production systems.

PROJECTS

HAKI — dialect-aware Arabic learning application with spaced-repetition vocabulary workflows; built end-to-end (backend, frontend, hosting, real users). Demonstrates product ownership outside employment. *React, backend API, spaced-repetition algorithm.*

Personal Ops — an LLM-driven agentic assistant: voice capture → Whisper transcription → weekly LLM digest → daily agenda proposals; iterated in public on reliability (context assembly, over-confident output). *Python, LLMs, Whisper, agentic orchestration.*

Semantic Retrieval Pipeline — local RAG over a ~100K-document archive: sentence-transformers embeddings, pgvector storage, hybrid keyword + vector retrieval. *Python, sentence-transformers, pgvector, PostgreSQL.*

TECHNICAL SKILLS

Infrastructure & Platform: Kubernetes, Docker, ArgoCD, GitOps, CI/CD, Consul KV, Ansible, Linux, air-gapped & self-hosted deployment, infrastructure automation

Backend Engineering: Python (FastAPI, Flask, Django), Go (GoFiber), Node.js, .NET/C#

Data & Storage: PostgreSQL, MongoDB, Redis, Neo4j, pgvector

Frontend: React, TypeScript

AI & LLM Systems: LLM/agent orchestration, prompt/context engineering, Whisper/TTS, RAG integration, embeddings (sentence-transformers), vector search — at the integration level

EDUCATION & CERTIFICATIONS

BA — Rabbinical Academy of Yeshivat Rabbeinu Chaim Berlin · **AS** — New England Institute of Technology
Python Programming (Wesleyan / Coursera) · JavaScript Algorithms (freeCodeCamp)