Avi Tuchband

Fullstack Engineer | Cloud & Infrastructures | Generative AI, LLMs & Agents

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🌐[GitHub](https://github.com/avitoohband)**Summary**

* Fullstack & Cloud Engineer with 5+ years of experience in software development, specializing in **Next.js, Spring Boot, and Python**.
* Strong background in **cloud-native architectures (GCP, AWS, Kubernetes, Docker)** and **scalable microservices**.
* Hands-on experience in **Generative AI, LLMs, and AI Agent development**, integrating frameworks like **LangChain, HuggingFace, OpenAI API, and FastAPI** to build intelligent services.
* Strong background in **Cloud & DevOps**: led migration of **on-prem** services to **GCP**, ran **GKE projects** and built **developer-ready cloud environments**.

**Experience**

2024 - Present **Backend & Infrastructure Engineer**, **Bank Discount**

* Built **Helm configurations** and **deployed microservices** on **GKE** (**Redis**, **Postgres**, **ODS**, **business-critical services**)
* Developed shared **infrastructure modules**: **Auth**, **JWT**, **API Gateway**, **Error Handling**, **WebClient**, **Swagger**/**OpenAPI**.
* Contributed to **cloud-native** **architecture** decisions (**GCP**) and led **modernization** of **legacy** systems.
* Built end-to-end **production-critical solutions** including Redis, Postgres, ODS, and business-critical services.
* Led migration of on-prem systems to **GCP**, running **GKE projects** and transforming developer workflows.

2021 - 2024 **Software Backend Developer**, **Bank Hapoalim**

* Specializing in developing in a **Microservices** environment and creating **RESTful** APIs.
* Expertise in **responsive** and **scalable** web applications.
* Expertise in implementing **CI/CD** pipelines with **Jenkins**, **OpenShift**, and **Cloudia**.
* Worked in **multithreaded environments** using **CompletableFutures** and **Java Generics** for **flexible**, **reusable code**.
* Collaboration with **AWS** mentors on implementing innovative **remote control** technology within my current institution, further expanding my technical skill set and practical application knowledge.

2015 - 2021 **System Administrator / Technical Assistance,** **John Bryce**

* Managed IT systems, networks, and technical support for hundreds of users.
* Administered Pearson VUE Test Center and coordinated certification exam delivery.

May - Nov 2021 **Private Programming Instructor**

* Delivered one-on-one lessons in programming concepts, software development, and modern frameworks.

Dec - Jun 2021 **Freelance Fullstack Engineer**

* Built fullstack web solutions using MongoDB, Node.js, React, AWS, and NGINX for small businesses.

**Education**

* **Computer Science and Psychology** – Open University, GPA 85 (**2019–2022**)
* **Professional PostgreSQL** – Brillix (**2025**)
* **Google Kubernetes Engine** & **Application Development** – Google (**2024**)
* **Google Cloud Fundamentals** – Google (**2024**)
* **Splunk Dashboard Studio** – Splunk (**2024**)
* **Cloud Computing with Amazon AWS** – Amazon (**2024**)
* **Web Development with Node.js & React Bootcamp** – (**2022**/**2023**)
* **Next.js Web Development Studies** – (**2022**/**2023**)
* **Spring Boot Java and Angular Fullstack Developer** – John Bryce College (**2021**)
* **CCNA** – Cisco Certified Network Associate (**2014**)
* **MCSA** – Microsoft Certified Solutions Associate (**2015**)
* **Electrical and Electronics Engineering** – Mekif Gilo (**2012**)

**AI & Generative AI Learning**

* **Complete Generative AI Course with LangChain & HuggingFace** – **2025**
* **LLM Engineering: Master AI, Large Language Models & Agents** – **2025**
* **The Complete Agentic AI Engineering Course** – **2025**

**Technical skills**

* **AI & Generative AI: LLMs, AI Agents, LangChain, LangGraph, HuggingFace**
* **Fullstack Development: Next.js, React, Node.js, Spring Boot, modern UI/UX frameworks**
* **Cloud & DevOps: GCP, AWS, Docker, Kubernetes, Helm, CI/CD pipelines**

**Languages**

**Hebrew** (native) | **English** (fluent) | **Japanese** (intermediate level)