

Ahmad Danaf

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ABOUT ME

A results-oriented software engineer with hands-on experience in **full-stack development**, **microservices architecture**, and **cloud-based deployments** using technologies such as **Django**, **React**, **Node.js**, **Docker**, **AWS**, and **Azure**. Proven ability to lead projects, write **clean and efficient code**, and build production-ready software solutions. Actively seeking a **full-time software engineering role** to contribute immediately and grow within a fast-paced, tech-driven environment.

SKILLS

- **Languages & Tools:** Python, Java, C++, JavaScript, Git, Linux
- **Frameworks & Technologies:** React, Node.js, Django, Docker, PostgreSQL, AWS, Azure

PROFESSIONAL EXPERIENCE

Software Engineer, Volunteer [\[LinkedIn\]](#) [\[Website\]](#) [\[Source Code\]](#) 2023–Present

- Led a team of **junior and senior engineers**, overseeing the **development lifecycle**, conducting **code reviews**, and enforcing **engineering best practices** to ensure a **maintainable codebase**.
- Designed and optimized **PostgreSQL schemas** and implemented **asynchronous backend processing**, cutting **query time by 40%** and improving performance of **gamification features**.
- Migrated **infrastructure** from **AWS (EC2, RDS)** to **PythonAnywhere**, reducing **deployment costs** and simplifying **maintenance**.
- Built and maintained **CI/CD pipelines** using **GitHub Actions**, enabling reliable and streamlined **deployments**.
- Managed a **30,000+ NIS budget** to support **platform growth** and boost **user engagement**.

PERSONAL PROJECTS

SpaceCodey [\[Website\]](#) [\[Main Source Code\]](#) [\[SessionHub Microservice\]](#) 2023–2025

- Developed a scalable **Django (Python) backend** with **PostgreSQL**, delivering astrophotography features like **NASA APOD**, **real-time ISS tracking**, and a custom **algorithm** for calculating optimal shoot times via **RESTful APIs**.
- Architected and deployed a modular **microservices infrastructure** using **Node.js**, **Express.js**, and **MongoDB**, building a dedicated **SessionHub** service that improved session retrieval speed by **40%** and enabled efficient, decoupled **backend data handling**.
- Configured automated deployments with **CI/CD pipelines** on **Azure App Service**, achieving **99.9% uptime** and seamless updates via GitHub integration.

Java Project: Sheet-Cell [\[Source Code\]](#) 2024

- Developed a **three-phase spreadsheet application** using **Java**, progressing from **console-based engine** to a **JavaFX GUI**, and culminating in a **client-server architecture** for real-time collaboration.
- Designed a **JavaFX-based client** offering intuitive features, including **dynamic cell formatting**, **range operations**, and **advanced sorting/filtering capabilities**.
- Implemented a **RESTful server on Apache Tomcat** to facilitate simultaneous multi-user collaboration with **role-based access control** for secure file management and editing.
- Ensured robust validation with **custom exceptions** and clean architecture through **interfaces**, supporting reliable **version tracking** of spreadsheet edits.

EDUCATION

The Academic College of Tel Aviv-Yaffo

Bachelor of Science in Computer Science

Tel Aviv-Yaffo, Israel

Expected Graduation: 2025

- * Recognized on the **President's Honors List** for academic excellence.

VOLUNTEER EXPERIENCE

CoreC++ Conference, Volunteer 2023 & 2024

- * Assisted with **logistics**, **registration**, and **attendee support** during the conference.
- * Engaged in **technical sessions** and **networking**, gaining exposure to **modern C++** and industry trends.