

Ahmad Danaf

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ABOUT ME

A **results-driven software engineer** with a proven track record leading the development of real-world platforms, including a gamified educational startup. Skilled in building and scaling **full-stack web applications**, designing **microservices architectures**, and deploying production-grade solutions using **Django, React, Node.js**. Strong foundation in **team leadership, CI/CD automation**, and **database optimization**.

SKILLS

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

WORK EXPERIENCE

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

A social-impact platform that empowers **teens** to engage in volunteering through **gamification**, task tracking, and **reward-based motivation**.

- 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 70%** 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**.
- Refactored and enhanced the **React frontend** using **TypeScript** and **Bootstrap**, improving code maintainability and delivering a responsive, cross-device user experience.
- Configured automated deployments with **CI/CD pipelines** on **Azure App Service**, achieving **99.9% uptime** and seamless updates via **GitHub integration**.

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