

Ali Hussein

Aspiring Software Engineer

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EDUCATION

Yildiz Technical University, Istanbul, Turkey

Bachelor of Science in Mathematical Engineering (English)

Expected Graduation: Jul 2026

SKILLS

Languages *Java* · JavaScript · HTML · CSS · Go · SQLite · MySQL · Python

Software & Frameworks Docker · Git · Github · Google Cloud Run · Websockets · Java Spring · Go Gin · REST APIs · ChartJS · Github Pages · Spring Security JWT · Zeek · TCP Dump · Network Programming

EXPERIENCE

Software Developer Intern – Pente Guard – Remote

Jan 2025 – Now

Developed real-time WebSocket services in Go and Python to stream live network data (Zeek, TCPDump) into the company's AI threat detection engine.

- Built a secure Java Spring Boot backend for the SODEFEND project (SOC Bootcamp portal) with JWT authentication, Spring Security, and hardened database interactions using JPA/Hibernate for MySQL.

- Implemented security best practices to protect against SQL Injection, XSS, and Broken Authentication vulnerabilities.

- Upgraded legacy desktop AI monitoring tools into secure web-based interfaces using HTML, CSS, JavaScript, and Python WebSockets.

- Strengthened backend API security by redesigning vulnerable GET endpoints to POST requests with JSON payload validation.

Yildiz Jam Coordinator – YTU Skylab

Oct 2022 – Nov 2022

Spread headed outreach efforts to a diverse range of companies to secure funding and sponsorships for the Yildiz Jam game development event at Yildiz Technical University

PROJECTS

Mercedes-Benz Guide Project – [Link](#)

Built a full-stack web application to display technical details of Mercedes-Benz cars using Go (Gin Framework) for the backend, SQLite for the embedded database (cost-effective for deployment), and JavaScript, HTML, CSS for the frontend.

Developed REST APIs for communication between the frontend and backend. The project is containerized with Docker and deployed using Google Cloud Run for scalable, serverless hosting. The static frontend is hosted on GitHub Pages for cost-effective deployment.

Diabetes Risk Assessment Website

A risk assessment tool for Type 2 diabetes using American Diabetes Association guidelines. Developed with Java Spring Boot, Vanilla JS, and MySQL. Containerised with Docker for easy deployment.

TCP Proxy Server in Go – forward proxy server

Developed a forward proxy server in Go that relays client messages to a third-party TCP server. Demonstrates concurrency with goroutines, socket programming, and error handling in distributed systems.

Credit Mortgage

Imaginary banking platform with user portals for clients, bank employees, and investors. Built with micro-services architecture; each portal has its backend, UI, and database. Currently completing bank employee module. Tech: Java Spring Boot, MySQL, Vanilla JS.

Data Mint & PDF Keyword Extractor

A data visualisation website for Turkish banks, using ChartJS for analysis, and a PDF keyword extraction tool (Apache PDFBox in Java) for financial data search. Containerised with Docker.

CERTIFICATES

- **HackerRank Java Basic Exam - [Certificate](#)**
- **Google Kaggle Python Exam – [Certificate](#)**