DHEYAB BIN AHMED

Applying for: Software Engineer | Backend Developer

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PROFESSIONAL SUMMARY

Software Engineering graduate (EMU, 2026) with two software engineering internships and a production full-stack platform led end to end as Backend Lead and Project Manager of a 3-person team. Strong in Python, Flask, SQLAlchemy, PHP, REST API design, PostgreSQL/MySQL, JWT authentication, WebSockets and OpenAI-powered features, backed by 35 automated tests passing on a deployed product. Seeking a Software Engineer or Backend Developer role where I can ship reliable, well-tested systems and keep growing through code reviews and mentorship.

KEY SKILLS

Backend: Python, PHP, Flask, SQLAlchemy, REST API design, WebSocket, JWT authentication, pytest, Postman
Frontend: JavaScript, HTML, CSS, React, Vite, Tailwind CSS, Jest
Databases: PostgreSQL (Neon, pgvector), MySQL/MariaDB, SQLite, SQL, schema design
Cloud & DevOps: Render, Vercel, Railway, Firebase Auth, DNS/domain setup, Resend (DKIM/SPF/DMARC), Git
AI & Security: OpenAI API (structured outputs, embeddings), RAG/vector search, Ollama, prompt engineering; OpenCV, MediaPipe; applied cryptography (DES-CBC, RSA, SHA-256, digital signatures)
Practices: Code review, architecture design, Agile teamwork, technical documentation (SRS/SDS/UML)

KEY PROJECTS

Fluent Peak — AI-Powered Language Learning Platform *Team of 3 · Backend Lead & Project Manager* | fluentpeak.xyz

- Led a 3-person team and owned the Flask/SQLAlchemy backend of a live speaking-practice platform with a React/Vite frontend, acting as the main contact with the faculty supervisor.
- Delivered speech processing, automated language assessment, Firebase OAuth, WebSocket messaging and WebRTC video calling (ICE candidate buffering for reliable peer connections).
- Took the product live on Render and Vercel with custom domain, DNS and transactional email (Resend, DKIM/SPF/DMARC); shipped with 22/22 backend and 13/13 frontend tests passing.

AI-Powered Portfolio Assistant *Individual Project* | dheyab.site

- Built a chat-based portfolio (Next.js, Prisma, PostgreSQL with pgvector) that answers visitor questions through retrieval and OpenAI structured outputs, plus an admin panel to manage content; deployed on Vercel.

Image Encryption Application (IEA) *Individual Project*

- Built a secure image-sharing app (React, Flask, SQLite) with DES-CBC encryption, RSA key exchange, SHA-256 hashing, digital signature verification, JWT authentication, role-based access and automated key rotation.

Library Booking System & **Hotel Reservation System** *Course Projects · Team Lead*

- Led two teams through the full software engineering lifecycle, delivering SRS, SDS and TPM documentation, UML models (use case and sequence diagrams) and a working demo for each system.

EXPERIENCE

Software Engineering Intern — Nabeel Perfumes Group of Companies *Sharjah, UAE*
1 Jul 2025 – 28 Jul 2025

- Delivered an internal PDF management web app (upload, combine, compress, track) with secure user accounts and a role-based admin panel within a 4-week internship.
- Designed the MySQL schema, integrated Ghostscript via Python for PDF merging and compression, optimised server logic for large files, and wrote the user manual.

26 Jan 2026 – 20 Feb 2026

- Independently scoped, designed and built a bilingual (English/Arabic) AI chatbot for the company website that answers customer FAQs and recommends products, in under 4 weeks.
- Used PHP, MariaDB/MySQL and OpenAI embeddings with FAQ-first matching and AI semantic fallback; wrote CSV/Excel import scripts for bilingual FAQ data, fixed Arabic encoding and tested the API with Postman.

EDUCATION

Eastern Mediterranean University (EMU) — Software Engineering *2022 – June 2026*
Relevant coursework: Analysis of Algorithms, Database Management Systems, Data Structures, Software Design, Software Process & Management, Computer Networks, Operating Systems, Client/Server Programming, Security of Computer Systems & Networks.

CERTIFICATIONS & LANGUAGES

ICDL Certificate (International Computer Driving Licence) | Languages: Arabic (native), English (fluent)