

SHAHAD ALSANEEA

Software Engineer | Full Stack Developer focused on Backend Engineering
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PROFESSIONAL SUMMARY

Software Engineer with a strong foundation in systems programming, backend engineering, and full-stack web development. Graduate of the intensive Software Engineering program at Holberton School.

I focus on building software that remains maintainable, scalable, and easy to evolve as business requirements change. My engineering approach emphasizes clean architecture, separation of concerns, reusable components, and reducing future development effort rather than simply delivering working code.

Comfortable working across the full stack, with a particular interest in backend engineering, system design, and solving complex technical problems through practical, well-structured solutions.

TECHNICAL SKILLS

- Languages: Python, C, JavaScript (ES6+), TypeScript, SQL, Bash
- Backend: Django, Django REST Framework, Flask, Node.js, REST APIs, WebSockets
- Frontend: React.js, HTML5, CSS3
- Databases: PostgreSQL, MySQL, SQLAlchemy ORM
- Computer Science: Data Structures & Algorithms, Big O Analysis, Object-Oriented Programming, Operating Systems Fundamentals
- Software Engineering: Software Design, Separation of Concerns, MVC Architecture, Test-Driven Development (TDD), UML Modeling, Git
- Infrastructure: Linux, Docker, Nginx

PROJECTS

Rauf — Full-Stack Tele-Veterinary Platform

Tech: Django REST Framework, React, PostgreSQL, WebSockets, Redis

- Designed and developed secure REST APIs with authentication, validation, and role-based access control.
- Built a real-time video communication platform using WebRTC, WebSockets, and Redis for signaling and live session management.
- Created reusable backend services (including a centralized Email Service) to separate business logic from request handling.
- Built reusable frontend components and centralized icon management.

- Focused on writing maintainable code that supports future feature development.

HBnB (Airbnb Clone)

Tech: Python, Flask, SQLAlchemy, MySQL

- Designed the application's object model using UML diagrams.
- Implemented a storage layer supporting both file-based persistence and MySQL databases.
- Built RESTful APIs following Test-Driven Development (TDD).
- Applied object-oriented design principles to create modular and extensible software architecture.

Simple Shell

Tech: C, Linux

- Developed a Unix shell from scratch using C.
- Implemented process creation with `fork()` and `execve()`.
- Built custom parsers and managed dynamic memory manually.
- Strengthened understanding of operating systems, memory management, and process execution.

EDUCATION

Holberton School at Tuwaiq Academy - Intensive Software Engineering Program

Riyadh Elm University - Bachelor of Dental Surgery (BDS)

EXPERIENCE

General Dentist | Almeswak Clinic | 2020–2023

- Developed strong analytical and problem-solving skills through clinical diagnosis.
- Managed accurate patient records while maintaining high standards of documentation and confidentiality.
- Communicated complex treatment information clearly to support informed patient decisions.

CERTIFICATIONS

- Microsoft Certified: Power BI Data Analyst Associate (PL-300)
- Google Advanced Data Analytics Professional Certificate
- Google Business Intelligence Professional Certificate
- Google Data Analytics Professional Certificate
- Business Intelligence & Data Analyst (BIDA®) – Corporate Finance Institute (CFI)