

Khawaja M Ammar

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Skills

Languages	JavaScript/TypeScript, Python, C++/C, HTML, CSS, SQL (PostgreSQL/MySQL), Golang
Frameworks	REACT.js, Express.js (PERN/MERN), Next.js, Astro
Libraries	Socket.IO, TailwindCSS, JWT
Tools	Git, Linux, ssh

Experience

Software Developer, Quality Group Pakistan (Jun 2020 – current)

- Designed and helped implement an **Express.js** server in node meant to replace a legacy Oracle server.
- Reduced human errors by up-to **3X** by designing an organic and friendlier **Front-end UI** in React.js and adding **backend validated checks** (using RESTful APIs) in several input forms.
- Added many new pipelines and controllers in the server enhancing it and the **SQL** database to better track and manage the inventory as well as planning of new orders.
- Created SOPs alongside changes in DB **schema** for more precise relationships between tables that do not allow erroneous data to be entered.

Teaching Assistant, LUMS CS Department (Sep 2018 – Dec 2020)

- Took the role of a teacher and **helped Computer Science students** in beginner and intermediate level CS courses.
- Conducted Labs, tests and office hours helping others out and **communicating** clearly.
- Developed a website with a basic CMS for a university society in **MERN** so they can manage their quarterly events.

Projects

[MERN Chatting App](#)

Backend and frontend functionality with Auth using JWT for secure login sessions. **Real-time** Chatting with notification indicators on frontend.
Frontend: REACT JS + Tailwind CSS + Axios
Backend: Nodejs + Express + Socket.IO + JWT
Database: MongoDB

[React Frontend Demo](#)

Mobile **responsive** layout and contains a few complex HTML/CSS elements like video, image gallery, a few animations for the navigation bar. It has been deployed [here](#).

[Python P2P file sharing](#)

Backend of P2P file sharing between nodes.
Libraries: Sockets, Threading

Education

LUMS

BS – COMPUTER SCIENCE
GPA: 3.28

IMPORTANT COURSES:

Distributed Systems, Software Engineering, Net-Centric Programming, Advanced Programming, Net-Security, Data Structures, Algorithms, Theory of Automata