

UMAR SAEED CHEEMA

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EDUCATION

Lahore University of Management Sciences (LUMS)

Bachelor of Science in Computer Science

Coursework: Data Structures, Algorithms, Software Engineering, OOP, Databases, Operating Systems, Human-Computer Interaction

Lahore, Pakistan

Aug 2019 – May 2023

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C/C++, SQL, HTML, CSS

Frameworks/Libraries: React, Node.js, NestJS, GraphQL, Ant-Design, Docker, AWS, Jest, React Testing Library, Keycloak, Pulsar, Kubernetes

Developer Tools: Git/Github, Figma, VS Code, Clickup, Jupyter, Github Desktop

EXPERIENCE

DGlobal — Software Engineer I

July 2023 – Present

NestJS, ReactJS, AntDesign, GraphQL, gRPC, Clickup, Git, Github, Docker, Github Actions, CI/CD, WebSockets Remote, Singapore

- Developed a **Retry Service** to handle all failing calls for HTTP and gRPC, retry for **5** time at most and then throw error, ensuring **reliability** in communication protocols.
- Worked on creating a **Notification System**, integrated Pulsar with NestJS and used Websockets for real-time user notifications, **optimizing** communication.
- Implemented GitHub Actions using semantic release to streamline the release process by automatically generating version updates and changelogs, **removing** manual intervention
- Collaborated with product team to **conceptualize high-fidelity** design in Figma, then utilized Ant Design to craft visually appealing, intuitive user interfaces, **enhancing** overall user experience.

Open Data Pakistan — Software Engineer

Aug 2022 – May 2023

CKAN, Python, Jinja2, Flask, Bootstrap, PostgreSQL, AWS EC2, Github

Lahore, Pakistan

- Added CKEditor to **enhance the functionality** for smoothly creating blogs and extended it to add live visualizations through infographics.
- Implemented Harvesting**, an ETL (extract, transform, and load) process for Open Data Pakistan to communicate datasets globally with other open data portals.
- Wrote extensions** to implement custom data fields, new themes, data visualizations, and vocabulary tags.

PROJECTS

KonsaCourse | React, Express, Node, MongoDB, MaterialUI, Tailwind CSS, Git, Github Project Jan 2022 – May 2022

- Developed a **full-stack** instructor and course rating web application using **MERN** stack for the LUMS community.
- Allows students to **rate** professors and courses based on specific heuristics, visualize the results, and present them to help future students make **informed decisions**.
- Worked on the **frontend** of the application in React with Material UI and Tailwind CSS.

Software House Management System | React, Express, Node, MySQL, PostgreSQL, Git Aug 2022 – Dec 2022

- Developed a web application using **MERN** stack to create an online management system for software engineers, product managers and HR.
- Designed the frontend in React and the **RESTful** backend server for persistent storage of tasks and performance of SWEs

Khayr | Figma, Human Centered Design, User Research, Testing, High-Fi Design, Lo-Fi Design Aug 2022 – Dec 2022

- A prototype desktop application was developed to help **Child Protection and Welfare Bureau** (CPWB) students manage anger and regulate emotions, including a teacher admin panel to monitor student progress.
- Participated in **data collection**, developed **hi-fi designs** in Figma and conducted interviews for **user testing**
- It helped **reduce** the workload on teachers and **improved** their class management as managing 3 strata in one class is difficult