

UMAR SAEED CHEEMA

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EDUCATION

Lahore University of Management Sciences (LUMS)

Bachelor of Science in Computer Science

Lahore, Pakistan

Aug 2019 – May 2023

Coursework: Data Structures, Algorithms, Software Engineering, OOP, Databases, Operating Systems, HCI

Extra Curricular: INDEX (General Secretary), IEEE (member)

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Go, 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

June 2023 – May 2024

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

- Developed internal tools for a digital banking application, utilized by solution architects, customers, and bank staff.
- Developed a **Retry Service** to handle failing HTTP and gRPC calls, with a maximum of **5 retries**, ensuring reliable communication.
- Built a **Notification** System integrating Pulsar with NestJS, using **Websockets** for real-time user notifications.
- Collaborated with the product team on **high-fidelity** designs in Figma, and used **Ant Design** to create visually appealing, intuitive user interfaces.

📍Open Data Pakistan — Software Engineer

June 2022 – May 2023

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

Lahore, Pakistan

- Contributed to the **HEC-funded** Open Data Pakistan project at LUMS, facilitating open data access for researchers and policymakers.
- Integrated **CKEditor** for enhanced blog creation and live infographics.
- Implemented **Harvesting**, an ETL process to share datasets globally with other open data portals.
- Developed **extensions** for custom data fields, new themes, data visualizations, and vocabulary tags.

PROJECTS

KonsaCourse | *React, Express, Node, MongoDB, MaterialUI, Tailwind CSS, Git*

- Developed a **full-stack** instructor and course rating web application using the MERN stack for the LUMS community.
- Enabled students to rate professors and courses, visualize results, and assist future students in decision-making.
- Leveraged knowledge in **web development**, front-end using React, Material UI, and Tailwind CSS.

Software House Management System | *React, Express, Node, MySQL, PostgreSQL, Git*

- Developed a **MERN** stack web application for managing software engineers, product managers, and HR.
- Designed the frontend in React and RESTful backend to manage tasks and performance data
- Utilized Node, React, Express, MySQL, Postman, Git, Github Project, and technical documentation.

Khayr | *Figma, Human Centered Design, User Research, Testing, High-Fi Design, Lo-Fi Design*

- Developed a prototype desktop application for **CPWB** students to manage anger and regulate emotions, with a teacher admin panel to monitor progress.
- Participated in **data collection**, developed **hi-fi designs** in Figma and conducted interviews for **user testing**
- **Reduced** teacher workload and improved class management by addressing the needs of **three** student strata.