

Muhammad Ahmad

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EDUCATION

University Of Engineering And Technology (UET)

Dec. 2022 – June 2026

Degree Bachelor of Science in Computer Science

Relevant Coursework

Data Structures & Algorithms, Database Systems, Operating Systems, Artificial Intelligence, Machine Learning, Software Engineering, Computer Networks, Web Development, Discrete Mathematics, Linear Algebra

PROJECTS

[Lymora Ecommerce Store](#)

React.js, Node.js, Express.js, MongoDB, PayPal API, Redux

- Crafted a responsive e-commerce platform achieving **95% mobile responsiveness** and **40% faster page loads**. Designed dynamic features like advanced search, real-time cart, and favorites, boosting **user engagement by 25%** and **conversion rates by 20%**.
- Architected a secure backend integrating **JWT authentication** and **PayPal API** to enhance security, **reduce server response time by 30%**, and accelerate transaction speed **by 25%**.

[Crypto Buzz](#)

React.js, Tailwind CSS, Redux Toolkit, Coin Gecko API

- Built a cryptocurrency screener enabling users to **search**, track **trending coins**, and analyze **real-time market data**, improving **data accessibility by 50%** and **reducing search time by 40%**. Implemented **React.memo** and **Redux state slicing**, reducing unnecessary re-renders by **60%** and enhancing **UI responsiveness by 35%**.
- Integrated **advanced filtering**, dynamic **chart visualization**, and historical data analysis, boosting **user engagement by 50%** and increasing **trader decision-making efficiency by 40%**.

[Netflix Clone](#)

React.js, Tailwind CSS, Redux Toolkit, TMDB API, Firebase

- Engineered a feature-rich Netflix clone, delivering a responsive, **fast-loading** interface with real-time movie and TV data, enhancing user engagement by **40%** and reducing page load time by **70%**.
- Implemented secure, scalable user authentication and efficient data management, reducing authentication time by **30%** and enhancing data retrieval speed by **25%**.
- Enhanced content discovery with dynamic movie player functionality and real-time updates, boosting video interactions by **50%** and significantly improving user satisfaction.

[AI-Powered Student Engagement Monitoring](#)

CNN, Sklearn, Matplotlib, React.js, Material UI, Node.js, Flask

- Built a **real-time engagement tracker** using deep learning to analyze student behavior, **automating 40% of classroom monitoring** and delivering actionable insights. Streamlined backend for student data and video processing, **cutting admin task time by 25%**.
- Designed an **intuitive teacher dashboard** for engagement tracking, progress reports, and trend analysis, **boosting user satisfaction by 30%** and enhancing decision-making precision.

[MS-DOS Shell and Mini Excel Applications](#)

DSA | C++, Arrays, Link list, Queue, Stack, Trees

- **MS-DOS Shell:** Designed and implemented a custom MS-DOS shell in C++ that simulates a **file system** using classes for File and Folder—supporting file management, **hierarchical directory structures**, and search/display functions—while integrating text editing features with **file I/O and undo/redo** capabilities via stacks.
- **Mini Excel Application:** Developed a mini Excel application in C++ featuring basic **spreadsheet** functionalities, leveraging efficient data management with linked lists, queues, and stacks.

SKILLS & INTERESTS

- **Frontend:** React, Next.js, Redux, Tailwind CSS, HTML/CSS, JavaScript | **Backend:** Node.js, Express.js, MongoDB, Firebase, MySQL, RESTful APIs | **Languages:** JavaScript, Java, Python, C/C++, C# | **Version Control:** Git, GitLab | **Tools:** PowerBI, Git VS Code, IntelliJ, Jira | **Methodologies:** Scrum, Sprint Management, Agile Methodology.
- **Interests:** Web Development, Artificial Intelligence, Machine Learning, Open-Source Contributions