Muhammad Mobeen
Software Engineer

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EXPERIENCE

AIM Lab   **Islamabad, Pakistan**
Team Lead   *May 2024 – July 2024*
- As a junior year student co-lead a team of 5 sophomores in a research project to detect fundamental human emotions through video and speech.
- Integrated RAVDESS and SURREY audio datasets to train a CNN Model which achieved 90% accuracy on test data.
- Implemented real-time user audio detection and emotion feedback system utilizing the trained model with 40 ms response time.
- Mapped the 7 basic detected emotions to multiple soft skills such as openness, extrovertness and empathy.

KK Solutions   **Islamabad, Pakistan**
Software Engineer Intern   *May 2023 – July 2023*
- Developed responsive web pages using HTML, CSS, and JavaScript, enhancing user experience and accessibility.
- Built and integrated backend services and RESTful APIs to support non-static content and data management, improving application functionality.
- Employed React JS components and hooks to create interactive and efficient frontend applications, boosting performance and maintainability.

PROJECTS

Choosedle   **Islamabad, Pakistan**
Theme based Wordle   *May 2024 - June 2024*
- Designed and deployed a Full Stack application solution for wordle 4 inspired games focusing on different themes such as words, songs, movies and TV shows.
- Utilized 2 popular API such as the Spotify API and Words API for daily queries of random songs and words.
- Cached daily results on mongodb cloud database resulting in only 2 API requests per day, improving site responsiveness by 80%.

MHH Housing   **Islamabad, Pakistan**
Housing Society Management System   *March 2024 - May 2024*
- Designed a web-based solution with the MERN stack, facilitating efficient home transactions and management in a housing community; optimized user experience and boosted user retention through intuitive design and functionality.
- Deployed online utility bill payment and maintenance, reducing in-person interactions by 50% and boosting efficiency.
- Applied the Model-View-Controller (MVC) design pattern, to ensure efficient and maintainable codebase living up to industry standards.

SKILLS

Programming Languages: JavaScript, Python, Java, C++, SQL, HTML/CSS
Development Tools: Visual Studio Code, Git, Github, Eclipse
Frameworks/Libraries: React, Node.js, Express.js, Flask, React-Bootstrap, TailwindCSS, RESTFUL APIs
Databases: MySQL, MongoDB, Oracle, Microsoft SQL Server, PostgreSQL

EDUCATION

FAST National University of Computer & Emerging Sciences   **Islamabad, Pakistan**
B.S. in Computer Science   *Expected Graduation, May 2025*
- **GPA:** 3.48/4.00
- **Related Coursework:** Data Structures, Database Systems, Design & Analysis of Algorithms, Object-Oriented Programming, Software Design & Analysis, Software Engineering.

OTHER

Certifications: React Js (2023), Version Control with Git and Github (2023)
Activities: Teaching Assistant for [CS-2001] Data Structures ('*A*') and [CS-2009] Design & Analysis of Algorithms ('*A+*')
Awards & Honors: Winner NUST Science Bee X Speed Programming, Winner AIRTECH '24 DataQuest, Dean's List