# Muzammil Ahmed Khan

Software Engineer-FAST NUCES

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## SUMMARY

Graduate Software Engineering student from FAST University with hands-on experience in Java, JavaScript, and React. Builds and maintains scalable full-stack applications using MongoDB and MySQL. Thrives in collaborative environments with a strong can-do and will-do attitude, and actively explores AI technologies for real-world impact. Committed to continuous learning and delivering robust software solutions.

## EXPERIENCE

**MERN Stack Developer, 10Pearls, Karachi, Pakistan**                                      **April 2025 – May 2025**

Developed problem-solving skills and built a Task Management System using the MERN Stack, applying full-stack development principles. Implemented full CRUD operations with RESTful APIs, integrating frontend and backend components to manage tasks efficiently and ensure seamless data persistence with MongoDB

**MERN Stack Full Time, Wenawa, Karachi, Pakistan**                                        **July 2025 – Sep 2025**

Worked as a Full Stack Developer (MERN) intern at a Wenawa service-based company, contributing to the development and enhancement of client products. Developed new features, fixed bugs, and improved existing modules of an HRM system using React, TypeScript, Node.js, and MongoDB to ensure optimal performance and user experience.

## EDUCATION

**National University of Computer & Emerging Sciences - FAST, Karachi, Pakistan** - *Bachelors,*          **Sep 2021 – Dec 2025**

Relevant Coursework: Object-Oriented Programming, Data Structures, Design and Analysis of Algorithms, Software Design and Architecture, Applied DevOps, Database Systems

## CERTIFICATIONS

**Coders Cup, Speed Programming Competition - PROCOM (FAST)  Dec 2021 Developers Day, ACM**          **May 2022**

## PROJECTS

**Supermarket Management System, Link**

Developed a Java-based inventory and billing system using OOP principles. Implemented role-based access, CRUD operations, and real-time billing with persistent file storage. Included sales reporting and inventory alerts for low, excess, and out- of-stock items.

**Final Year Project (LegalEase AI), Link**

Developed an AI-powered legal assistance system providing simplified legal guidance in English, Urdu, and Roman Urdu, with voice input support. Implemented OCR and AI-based document analysis to extract, summarize, and explain legal documents in easy language. Built using RAG architecture, vector embeddings, and Llama 3.3, focused on family and criminal law to improve access to legal support for underserved communities.

**Text Editor GUI, Link**

Built a custom text editor with insert/delete functionality using a linked list. Integrated undo using a stack and dictionary management using a binary search tree (BST). Added file I/O and full GUI with Java Swing for real-time editing, word highlighting, and dictionary manipulation with persistence

## SKILLS

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|---|---|
| **Programming Languages** | : Java, JavaScript, C, C#, C++, Python |
| **Frameworks** | **:** Next.js, Java Swing |
| **Libraries** | **:** ReactJS, Node.JS |
| **Databases** | : Mysql, MongoDB |
| **Operating Systems** | : Windows/**OS** |
| **Interests** | **:** Artificial Intelligence, Software Development |