

MUHAMMAD AASHIR ASLAM

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[LinkedIn](#) [GitHub](#) [X \(Twitter\)](#)

OBJECTIVE

Software Engineering student at NUST with hands-on experience in Java, C/C++, and the MERN stack. Passionate about building scalable full-stack applications and exploring blockchain technology. Seeking opportunities to apply strong problem-solving skills and project-based learning to real-world engineering challenges.

EDUCATION

National University of Sciences and Technology (NUST)

Bachelor of Science in Computer Software Engineering

Islamabad, Pakistan

Oct 2024 – Oct 2028

EXPERIENCE

Intern

Jun 2025 – Sep 2025

Alkhidmat Foundation Pakistan

Pakistan

- Contributed to community engagement and social impact initiatives, gaining hands-on experience in teamwork and leadership.
- Supported research-driven projects, strengthening project planning, communication, and organizational skills.

OPEN SOURCE CONTRIBUTIONS

Contributor — preCICE

GitHub

Open Source Project

- Contributed 8 merged pull requests improving website stability, accessibility, and CI workflows.
- Fixed a GitHub Actions workflow that had silently failed for ~1.5 years, resolving search indexing failures.
- Resolved HTML structural issues and layout inconsistencies across the landing page and shared layouts.
- Improved cross-browser accessibility by restoring missing focus outlines in Firefox and Chromium.
- Fixed broken documentation links and indexing issues affecting project discoverability.

PROJECTS

Library Management System | *C++, Node.js, REST API*

- Built a full-stack library management platform with a C++ backend and a Node.js web interface.
- Implemented custom data structures (Doubly and Singly Linked Lists) and sorting algorithms (merge sort, insertion sort) to demonstrate core DSA concepts in a real-world application.
- Developed a RESTful API with complete CRUD operations for books, users, and transactions.

AI Event Manager | *Next.js 16, TypeScript, Gemini AI, Supabase*

- Architected a multi-tenant event platform for a Webathon using Next.js 16 and Tailwind CSS, featuring an interactive drag-and-drop SVG venue builder and an advanced registration system.
- Integrated Google Gemini to power a RAG-based context-aware chatbot and implemented an AI Networking Engine that matches attendees using interest intersection and cosine similarity.
- Pioneered accessibility features by incorporating the Web Speech API for voice navigation and MediaPipe for gesture controls, backed by a secure Supabase, Prisma, and Clerk infrastructure.

TECHNICAL SKILLS

Programming Languages: Java, C, C++, JavaScript, TypeScript

Frameworks & Libraries: React.js, Next.js, Express.js, Node.js

Databases: MongoDB, MySQL, PostgreSQL, Supabase

Tools & Technologies: REST APIs, Git, GitHub, JWT Authentication

Soft Skills: Time Management, Critical Thinking, Leadership, Communication