

# HAMZA MUHAMMAD IQBAL

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## PROFESSIONAL SUMMARY

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Second year Computer Science student at NUST building real systems - not just coursework projects. Designed and shipped backend APIs for a live e-commerce platform using Spring Boot and MySQL with JWT-based authentication and role-based access control. Contributed to a Rust-integrated blockchain supply chain system and a graph algorithm-driven city navigation platform. Comfortable across the full backend stack with growing full-stack exposure through React and Node.js. Driven by depth over speed, with a focus on system design, clean architecture, and solving problems that have actual moving parts.

## EDUCATION

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**National University of Sciences & Technology (NUST), Islamabad**

2024 – 2028

Bachelor of Science in Computer Science (BSCS)

Currently in 4<sup>th</sup> Semester

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Advanced Database Systems, Information Security, Computer Network

## TECHNICAL SKILLS, ACTIVITIES & INTERESTS

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<b>Languages</b>	C/C++, Java, JavaScript, TypeScript, SQL, Oracle PL/SQL
<b>Frameworks &amp; Libraries</b>	React, Node.js, Express.js, Spring Boot, Hibernate/JPA
<b>Databases</b>	MySQL, MongoDB, Oracle, FireBase
<b>Tools &amp; Platforms</b>	Git/GitHub, Postman, Figma, Canva, Vercel
<b>Interests</b>	Full-Stack Web Development, Application Development, AI Automation Projects

## PROJECTS

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**AgriBlock : Blockchain Supply Chain System**

[Demo Video](#) | [GitHub](#)

AgriBlock is a traceability platform for agricultural supply chains, using an immutable blockchain layer to verify and record every event from farm to distribution. Built the Node.js and Express backend with MySQL for structured data storage and integrated a custom Rust-based blockchain module to handle tamper-proof event logging. Implemented role-based access logic to differentiate between farmer, distributor, and admin actors, and designed the system to provide end-to-end traceability for any product batch in the chain.

**Naz Rice : E-Commerce Platform**

[Demo Video](#) | [GitHub](#)

Naz Rice is a backend-driven e-commerce system built for a rice retail business, handling product listings, customer orders, and admin operations through a structured server-side architecture. Developed the complete backend using Spring Boot and MySQL, designing a normalized relational schema across multiple entities to support efficient product and order management. Implemented JWT-based authentication and role-based access control to separate admin and customer permissions, and exposed all core functionality through structured REST APIs connected to an admin dashboard for centralized business operations.

## HACKATHONS & COMPETITIONS

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**Vibe Coding Hackathon - Remote (NYU Abu Dhabi)**

Nov 2025

- Participated in an international remote hackathon hosted by NYU Abu Dhabi, building a complete Bubble Shooter web game within the event timeframe using AI-assisted development workflows on Cursor IDE; explored the boundaries and limitations of prompt-driven engineering.