

Muhammad Hamza Khan

Software Engineering Student | Full-Stack Developer

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🔗 portfolio-iota-plum-79.vercel.app

PROFILE

Motivated Full Stack Developer and Software Engineering student with hands-on experience in designing, developing, and testing scalable web applications. Proficient in MERN Stack (MongoDB, Express.js, React.js, Node.js), Next.js, REST APIs, and Git/GitHub. Experienced in real-time web application development, database management, component-based architecture, and agile team collaboration. Currently working as a Software Engineer Intern at RFZ Digital, contributing to full-stack frontend development and Quality Assurance (QA), performing both Manual Testing and Automation Testing using **Cypress** and **Selenium**. Demonstrated ability to independently build and ship complete web solutions, ensure software quality, and collaborate with senior engineers to deliver high-quality, production-level software products.

PROFESSIONAL EXPERIENCE

Software Engineer Intern RFZ Digital

02/2026 – Present
Islamabad, Pakistan

- Developed and maintained frontend features for a **Notion-clone web application** using **Next.js** and **React.js**
- Followed **Atomic Design folder structure** to organize components into atoms, molecules, organisms, and templates for scalable and maintainable codebase
- Built responsive, reusable UI components ensuring consistent design patterns across the application
- Collaborated with the development team using **Git/GitHub** for version control, branching, and code reviews
- Integrated frontend components with backend **REST APIs** for dynamic and real-time data rendering
- Participated in agile development workflows including task planning, sprint cycles, and team collaboration
- Performed **Manual Testing** of web application features to identify bugs, edge cases, and UI inconsistencies
- Developed and executed **Automation Test scripts** using **Cypress** and **Selenium** to streamline regression testing and improve software quality
- Documented test cases, bug reports, and testing outcomes to ensure clear communication across the development team

EDUCATION

Bachelor of Science in Software Engineering

PMAS-Arid Agriculture University Rawalpindi

09/2024 – Present
Rawalpindi, Pakistan

- Completed 4 Semesters | Currently on Summer Break | 5th Semester Starting Soon
- Relevant Coursework: Information Technology, Database Management Systems (DBMS), Object Oriented Programming (OOP), Programming Fundamentals (PF), Data Structures & Algorithms (DSA), Computer Networking, Software Engineering

Higher Secondary School Certificate (HSSC)

Federal Board of Intermediate and Secondary Education (FBISE)

2022 – 2024
Islamabad, Pakistan

- Subjects: Computer Science, Mathematics, Physics

SKILLS

Frontend Development

React.js, Next.js, HTML5, CSS3, JavaScript (ES6+), Tailwind CSS, Bootstrap, Responsive Web Design, Component-Based Architecture, Atomic Design

Backend Development

Node.js, Express.js, REST API Development, API Integration

Database

MongoDB, Mongoose, Database Management Systems (DBMS)

Testing & QA

Manual Testing, Automation Testing, Cypress, Selenium, Functional Testing, Regression Testing, Bug Reporting, Test Case Documentation

Cybersecurity & Security Testing

Web Application Security Testing, Vulnerability Assessment, Burp Suite, OWASP Top 10

Tools & Technologies

Git, GitHub, Version Control, VS Code, Postman, npm

Soft Skills

Agile Methodology, Team Collaboration, Problem Solving, Cross-Functional Communication, Attention to Detail

CERTIFICATES

MERN Stack Development — First Position Aridian Array Society — PMAS Arid Agriculture University 2025

- Achieved first position in MERN Stack Development course demonstrating exceptional proficiency in MongoDB, Express.js, React.js, and Node.js
- Recognized for outstanding performance in full-stack web development among all course participants

Programming with JavaScript Coursera — Meta (Facebook) 2025

- Completed the Programming with JavaScript certification offered by Meta on Coursera
- Gained strong foundation in JavaScript fundamentals including ES6+ features, functions, arrays, objects, and DOM manipulation
- Strengthened core programming skills directly applicable to frontend and full-stack web development

PROJECTS

Notion Clone

03/2026 – Present

Next.js, React.js, Atomic Design Architecture, REST APIs, Git, GitHub

- Contributed to development of a Notion-clone web application as part of a professional development team at RFZ Digital
- Developed and maintained scalable frontend features using Next.js and React.js following Atomic Design architecture organizing components into atoms, molecules, organisms, and templates
- Built reusable UI components including rich text editors, dynamic sidebars, and nested page layouts replicating core Notion functionalities
- Followed agile development workflow including sprint planning, task management, pull requests, and peer code reviews using Git and GitHub

Student Management System

04/2026 – 04/2026

MongoDB, Express.js, React.js, Node.js, REST APIs, Git, GitHub

- Independently designed, developed, and deployed a full-stack Student Management System using MERN Stack from concept to completion
- Developed RESTful APIs using Node.js and Express.js to handle CRUD operations for student records, grades, and attendance management
- Built a dynamic and responsive frontend using React.js with reusable component-based architecture for efficient rendering and UI management
- Designed MongoDB database schema using Mongoose for structured storage and retrieval of student and academic data
- Implemented user authentication and role-based access control ensuring secure and authorized access to sensitive student information

- Managed complete project lifecycle independently including planning, development, testing, debugging, and deployment

Real-Time Communication Web Application

11/2025 – 12/2025

MongoDB, Express.js, React.js, Node.js, Socket.io, REST APIs, Git/GitHub

- Collaborated with a senior developer to design and develop a full-stack real-time communication web application using MERN Stack and Socket.io
- Implemented real-time bidirectional communication using Socket.io enabling instant messaging and live updates between multiple connected users simultaneously
- Developed RESTful APIs using Node.js and Express.js for user authentication, session management, and server-side business logic
- Built responsive and interactive frontend interfaces using React.js ensuring consistent and seamless user experience across all devices
- Designed and managed MongoDB database schema using Mongoose for efficient and structured data storage and retrieval
- Implemented user authentication and secure login functionality to protect user data and manage active sessions
- Managed source code using Git and GitHub with feature branching and version control throughout the development lifecycle

INTERESTS

Gym & Fitness | Badminton | Travelling | Gaming | Full Stack Web Development |
Web Application Security | Continuous Learning in Emerging Web Technologies