

MIRZA MUHAMMAD SHAHEER BAIG

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Full Stack Developer | MERN Stack | React · Node.js · Next.js · Python

PROFESSIONAL SUMMARY

Results-driven full-stack developer and Software Engineering student with a proven ability to independently architect and ship production-grade web applications. Proficient in the MERN stack, Next.js 15, real-time systems (Socket.io), 3D rendering (Three.js), and cross-platform mobile deployment (Capacitor). **1st-Place Winner, NUTECH ICAT Competition 2024** — actively seeking a junior full-stack role to contribute impactful, user-centered solutions.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, Java, C, SQL

Frontend: React 19, Next.js 15, Tailwind CSS, Three.js, Framer Motion, Responsive Design, PyQt6

Backend & APIs: Node.js, Express.js, REST API Design, Socket.io, JWT Authentication

Databases & Tools: MongoDB, PostgreSQL (Prisma ORM), MySQL, Supabase | Git, GitHub, Linux, Capacitor

PROJECTS

ChessMaster · React 19 · Node.js · PostgreSQL (Prisma) · Socket.io · Three.js · Capacitor 2026

- Independently architected a full-stack chess platform featuring real-time multiplayer matchmaking via Socket.io, an immersive 3D board built with Three.js, and an integrated game-analysis engine — cross-platform deployed to web and mobile from a single codebase using Capacitor.
- Engineered a scalable social system with friend invites and performance tracking, taking full ownership from PostgreSQL schema design (Prisma ORM) through to a polished, responsive UI.

WearEX · Next.js 15 · Supabase · Tailwind CSS · Framer Motion In Progress

- Built a production-grade e-commerce platform using Next.js 15 with server-side rendering, real-time inventory updates via Supabase, and secure user authentication — optimized for high SEO performance and sub-second load times.
- Delivered a fully animated, responsive storefront (Tailwind CSS + Framer Motion), demonstrating expertise in performance optimization and detail-oriented UI/UX design.

NUSphere · MongoDB · Express.js · React · Node.js (MERN Stack) 2026

- Delivered a comprehensive academic management platform with automated GPA calculation, real-time attendance tracking, and grade prediction — consolidating complex university data into clear, actionable student insights.
- Implemented JWT authentication and a fully responsive MERN stack interface, ensuring data security and cross-device accessibility at university scale.

CyberShell · C · Python · PyQt6 · Google Gemini AI 2025

- Built a hybrid terminal ecosystem pairing a high-performance C shell engine (supporting pipelines and job control) with an AI-powered PyQt6 GUI featuring live Google Gemini integration and real-time system diagnostics — showcasing advanced systems programming and AI integration skills.

NuGames · Java · Swing & AWT · OOP · Game Physics 2024

- Built a multi-game desktop arcade platform pairing a high-performance 2D rendering loop (supporting sprite-sheet animation and collision detection) with a custom Swing GUI featuring real-time multiplayer inputs and particle-trail visual effects — showcasing advanced Object-Oriented Programming and game physics skills.

NuQuizzer · Python · Tkinter · Pandas · Pillow (PIL) · Multithreading 2025

- Developed a multi-threaded desktop quiz engine pairing a single-player timed challenge with a local multiplayer mode supporting concurrent keyboard inputs — leveraging custom Tkinter UI architectures, non-blocking background threads for game loops/dynamic progress bars, and Pandas-driven CSV serialization for persistent leaderboard and match history tracking.

EDUCATION

Bachelor of Science in Software Engineering 2023 – 2027 (Expected)

NUTECH – National University of Technology, Islamabad, Pakistan · CGPA: 2.94 / 4.00

AWARDS & ACTIVITIES

1st Place — ICAT Project Competition, NuGames · NUTECH University, Islamabad 2024

Gold Medal — Academic Excellence (98% in Matriculation) · Divisional Model College, Faisalabad 2021

Volunteer Member — Rising Star Initiative (NGO), NUTECH · Community food & essential aid distribution 2024 – Present