

HAMZA MUBIN

📍 Lucknow | 📞 9838894338 | ✉️ hamzamubeen182@gmail.com | 🌐 [Portfolio](#) | 🔗 [LinkedIn](#) | 📁 [GitHub/Hamza1821](#)

Education

Institute of Engineering and Technology, Lucknow

Bachelor Of Technology (CSE) | Graduation: **2026** | GPA: **8.1/10**

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Databases, Computer Networks.

Skills

- **Programming Languages:** Python, JavaScript, Java, C
- **Backend Development:** Node.js, Express.js, Next.js, Prisma
- **Databases & Tools:** SQL, MongoDB, Docker, Github
- **Web Development:** React.js, HTML, CSS, GSAP
- **Machine Learning:** TensorFlow, Keras, Scikit-learn, numpy, pandas
- **Competitive Coding:** CodeChef (Max Rating 1672, 3 star), HackerRank (Gold Badge, 5 star)

Work Experience

Backend Developer Intern | *Matrix Innovation*

Dec 2024 - Present

- Engineered and Optimized backend API performance, **reducing response times by 35%** through query indexing and **browser local storage caching**.
- Engineered **real-time matchmaking & session management** for a **Unity-based 3D basketball game**, improving match success rate by **40%**.
- **Improved database query efficiency by 50%**, leading to faster data retrieval and smoother gameplay.

Contributor | *GSSoC-Extended 2024*

Oct 2024 – Nov 2024

- Contributed **22 merged** pull requests across various open-source projects, demonstrating proficiency in GSAP animations and **backend development**.
- Achieved rank **109 out of 3,900** active participants, showcasing consistency and **impactful contributions**.

Technical Projects

SpaceHm: NASA Explorer | *React.js, HTML, CSS*

- **Built an interactive NASA resource platform**, integrating **NASA's API** for real-time space data access.
- **Optimized API calls**, reducing data-fetching time by 40%, improving user experience.
- **Developed an interactive image gallery** with **search, filtering, and download features**, enhancing engagement.
- **GitHub Link:** [SpaceHm](#), **Website Link :** [SpaceHm](#)

HamGram: A Social Media App | *React.js, Node.js, Express.js, MySQL*

- **Designed a scalable backend** handling **concurrent users** and **thousands of daily interactions**.
- **Implemented secure JWT authentication** and **bcrypt hashing**, improving user security.
- **Optimized SQL queries**, reducing **database response time** for smoother user interactions.
- **GitHub Link:** [HamGramUI](#) & [HamGramAPI](#)

HamVerse: 2D Metaverse | *Node.js, PostgreSQL, Prisma, React.js, WebSockets, Jest*

- Developed a **real-time collaborative environment** with **WebSockets** and **PostgreSQL**, supporting dynamic user interactions.
- **Designed and tested scalable APIs** with Prisma ORM, implementing **Test-Driven Development (TDD)** using Jest.
- **Built an interactive frontend canvas**, supporting user movement and engagement in the virtual world.
- **GitHub Link:** [HamVerse](#)

Awards & Achievements

- Secured Rank **207** in **CodeChef Starter 156 Div 3**.
- Recipient of the **Reliance Foundation Scholarship**, awarded to the top 5,000 students in India for exceptional performance in an **aptitude test and academic dedication**.

Certifications

- **"Machine Learning specialization"** by **Stanford University & DeepLearning.AI** on Coursera | [Certificate](#)
- **"Prompt Engineering"** on Udemy | [Certificate](#)