NURUL HUSSAIN

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Education

Stony Brook University   Stony Brook, NY
Bachelor of Science in Computer Science   Aug, 2021 - May, 2025

Experience

Noteify – Taggable Notes Management App | FastAPI, PostgreSQL, React   2025
- Created a secure, full-stack note-taking platform enabling instant search across 1,000+ tagged notes using optimized PostgreSQL queries. Implemented JWT authentication, dynamic tagging, and a REST API with <100 ms query response times.

Smart City Simulation Platform | *JavaScript, Typescript, React, AWS, MongoDB*   2025
- Designed and deployed a real-time, full-stack multiplayer tank game with WebSocket-based communication, scalable AWS cloud hosting, and automated CI/CD pipelines. Optimized game state synchronization for smooth cross-browser performance. Awarded 1st place at the 20th Annual Stony Brook Game Programming Competition.

AI-Generated Data Visualizer | *HTML/CSS, NextJS, D3.js, Hugging Face*   *2025*
Deployed web app that transforms uploaded datasets into artistic visuals by mapping data to AI-generated models. Integrated with Hugging Face API and supports optional real-time inputs (e.g., weather, stock trends).

Deployed Web Game | *JavaScript, Typescript, React, AWS, MongoDB*   2024
- Designed and deployed a real-time, full-stack multiplayer tank game with WebSocket-based communication, scalable AWS cloud hosting, and automated CI/CD pipelines. Optimized game state synchronization for smooth cross-browser performance. Awarded 1st place at the 20th Annual Stony Brook Game Programming Competition.

StackOverflow-style Technical Forum | *JavaScript, MERN*   2023
- Developed and deployed a full-stack Q&A web platform where users can post, answer, and curate technical questions. Implemented secure user authentication with SHA-256 encryption, email-based account verification, and scalable MongoDB-backed data management.

Skills

Languages: Java, SQL, JavaScript, HTML, CSS, Python, Ruby, C/C++, Swift
Frameworks: React, NodeJS, NextJS, TailwindCSS, Angular, Django
Technologies: PostgreSQL, MySQL, SwiftUI, React, AWS, MongoDB, Firebase, d3.js