Zubayer Hossain Uday

Full Stack Developer | MERN Stack | NEXTjs

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About Me

I am a passionate Computer Science and Engineering student at **SUST** with a robust foundation in Full Stack Development. My expertise spans the **MERN stack**, **Next.js**, and modern Python frameworks like **FastAPI**. Beyond coding, I am proficient in deployment pipelines (Docker, Vercel, Railway) and database management (SQL & NoSQL). I am actively expanding my skill set into **Machine Learning**, aiming to bridge the gap between intelligent algorithms and scalable web applications. I am eager to leverage my technical depth and problem-solving skills in a challenging professional environment.

Education

Shahjalal University of Science and Technology (SUST)	Sylhet, Bangladesh
Bachelor of Science in Computer Science and Engineering	*Present*
Government Science College	Tejgaon, Dhaka
Higher Secondary Certificate (HSC)	*2018 – 2020*

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C++, Python, Java
Frontend: React.js, Next.js, Tailwind CSS, ShadCN UI, HTML5, CSS3
Backend: Node.js, Express.js, FastAPI (Python), WebSockets
Databases: MongoDB, PostgreSQL, MySQL
Tools & DevOps: Git, GitHub, Docker, Sentry, Vercel, Netlify, Render, Railway
Current Focus: Machine Learning (Beginner), Data Analysis

Projects

Blend:It | *React, TypeScript, FastAPI, SQLAlchemy, WebSockets, Tailwind*   Live Link | Frontend | Backend

Developed a **Distributed Computing Rendering Platform** allowing users to upload `.blend` files and generate 3D models/videos with real-time progress tracking.

Designed a high-performance backend using **FastAPI** and **SQLAlchemy** to handle Community Hub requests and data persistence.

Built a real-time Community Hub featuring a Stack Overflow-style Q&A system and live chat utilizing **WebSockets** for instant communication.

Designed a responsive UI with **ShadCN** and **Tailwind CSS**, deployed seamlessly on Netlify (Frontend) and Render/Railway (Backend).

Parcel Delivery System | *Node.js, Express, MongoDB, TypeScript, JWT*   GitHub Link

Architected a scalable logistics backend supporting **Role-Based Access Control (RBAC)** to manage distinct permissions for Admins, Riders, and Users.

Implemented secure authentication strategies using **JWT** and password encryption.

Features include real-time parcel tracking, automated delivery status updates, and a RESTful API structure optimized for scalability.

Achievements

2nd Runners Up, Inter-University Hackathon.

- Team: *Hothat Atonko* (Sudden Panic). Demonstrated rapid problem-solving and software prototyping skills under time constraints.

Leadership & Co-Curricular Activities

Publication Secretary	SUST
CSE Society, Shahjalal University of Science and Technology	*Present*
Managing technical publications and overseeing content distribution for the department's student body.	
Deputy Treasurer	SUST
Greater Faridpur Association	*Present*
Assisting in financial planning, fund management, and organizing welfare events for students.	

Interests

Cycling, Singing, Playing Cricket, Adventure Touring.