Shahabuddin Ahmed Khan

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Summary

A Computer Science & Engineering (CSE) graduate with a passion for AI/ML and proficiency in full-stack web development. Skilled in Python, JavaScript, Node.js, React, and REST API development. Interested in working alongside experienced developers and contributing to innovative, high-quality projects while continuing to grow as an AI/ML engineer.

Skills

Languages	Python, JavaScript
Frontend	HTML, CSS, React, Tailwind CSS, Next.js, TypeScript
Backend	Django, NodeJS, ExpressJS
Database	MongoDB, PostgreSQL, Firebase
Tools	Matplotlib, Seaborn, TorchVision, PyTorch, Scikit-learn, Git, GitHub

Education

BRAC University — **Jan 2020 - May 2025**
B.Sc. in Computer Science and Engineering
CGPA: 3.51/4.00
Coursework:

– Software Foundations, Computer Architecture, Data Structures and Algorithms, Artificial Intelligence, Comparison of Learning Algorithms, Computational Theory, Network.
– Neural Networks, Computer Networks, Operating Systems, Software Engineering.

Queen's School & College — **Jan 2020 - May 2025**
Higher Secondary School Certificate
GPA: 5.00/5.00

Projects

Zeus Equipment — **July 2025**

– Developed and maintained a React-based web application for managing sports equipment, featuring user authentication, equipment management, and responsive design.
– Implemented client-side routing using React Router and integrated Axios for seamless API communication with a MongoDB backend, ensuring efficient data handling and smooth user interactions.
– Designed and optimized the user interface with CSS and Vite, leveraging Context API for state management and dotenv for secure management of environment variables.

Winter Donation — **May 2025**

– Created a platform for clothing donations, leveraging React for dynamic interactions and Tailwind CSS to ensure responsive, scalable design.
– Implemented Google authentication using Firebase and integrated Toastify for real-time success and error notifications.
– Utilized MongoDB to efficiently manage user data and donations, ensuring seamless backend operations.

Student Management System — **Mar 2024**

– Developed a multi-tenant MVC-based system for organizing universities, faculty, and students with centralized academic data stored in MySQL.
– Enabled role-based access control and session management, ensuring secure user access and data privacy.
– Employed SCSS and LESS to deliver responsive, maintainable designs, improving scalability and user experience across multiple devices.

Research Experience

Neurodegenerative Disease Detection Deep Learning Model — **July 2024**

– A model named SadNetV1 which is a combination of MobileNetV2 and some custom layers.
– Executed data augmentation and Spatial Attention to achieve 97% accuracy.
– Employed Grad-CAM Explainable AI for model explainability. dotenv for secure management of environment variables.