Md Abrar Al Zabir

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EDUCATION

Bachelor of Science, Computer Science
The University of Texas at Dallas · Richardson, TX · 2028
· Awarded the academic excellence scholarship (AES) renewable for 4 years based on outstanding academic performance.

SKILLS

Languages & Technologies: Python, C++, JavaScript (Core & ES6+), HTML, CSS, Machine Learning(Deep Learning)

Frameworks & Libraries: React.js, Express.js, Node.js, Tailwind CSS, Three.js, Open CV, Pandas, Numpy, Matplotlib, Scikit-learn, Tensorflow, Keras

Databases & Tools: MySQL, MongoDB, RESTful APIs, Firebase, AWS, Git, GitHub, Jupyter Notebook

EXPERIENCE

Software Engineer | Machine Learning
AIS UTD   February 2025 - Present, Richardson, TX
· Training a machine learning (deep learning) model capable of analyzing and classifying eye data for disease detection.
· Implementing Pandas and Numpy for data preprocessing, OpenCV for image processing, and Matplotlib for data visualization.
· Utilizing Tensorflow and Keras to training CNNs on training datasets split using scikit-learn, achieving high test accuracy.
· Aiming to improve early detection of eye diseases and personalize treatment recommendations through AI-driven insights.

Software Engineer | Full-Stack Developer
Himmels Zenith   December 2024 - February 2025, Dhaka, Bangladesh
· Led the development utilizing React.js and Tailwind CSS to develop a fully responsive frontend, employing Context API for global state management.
· Built a robust backend with Node.js, Express, and MongoDB Atlas to support dynamic data management and API integration.
· Designed and implemented RESTful APIs to enable CRUD operations, ensuring efficient data handling and scalability.
· Integrated various payment methods including Stripe and bKash and used Axios for seamless communication between frontend and backend.

Software Developer Intern | Frontend Developer
99 Yards   September 2024 - December 2024, New York City, NY
· Utilized React.js and tailwind CSS to develop a fully responsive and highly dynamic redesigned version of the company's website.
· Implemented Routing using react router DOM to allow for seamless navigation, improving the rendering speed by 70%.
· Adhered to Agile methodology to deliver pixel-perfect UI from Figma designs, contributing 1000+ lines of code to GitHub repositories.

PROJECTS

Potato Disease Classification Model
github.com/ClosetCoderSad/ML-DL-Projects · February 2025 - February 2025
· Utilized Tensorflow to train a CNN for a machine learning (deep learning) model capable of detecting diseases on images of potato leaves.
· Implemented Keras and NumPy for preprocessing datasets from Kaggle, and Matplotlib for visualizing insights.
· Achieved up to 99.87% test accuracy in classifying potato leaves as healthy or diseased (early or late blight).

Sustainify
HackUTD · github.com/decloon/HackUTD · November 2024 - November 2024
· Developed an AI-powered web app for HackUTD 2024 in a team of 4, enabling property managers optimize energy usage and sustainability.
· Built a responsive frontend with ReactJS and Tailwind CSS, and a backend with Flask and PostgreSQL for efficient data storage.
· Integrated data analysis tools like Pandas, Scikit-learn, and ChartJS, using SambaNova's LLM for tailored insights.

AI Assistant Mouse
Buildspace · github.com/ClosetCoderSad/AI_Assistant_Mouse · June 2024 - July 2024
· Developed an AI-powered assistant mouse using OpenCV, MediaPipe, and PyAutoGUI to control the mouse pointer with hand movements.
· Implemented real-time hand tracking with MediaPipe, enabling accurate gesture recognition for controlling mouse actions.
· Utilized PyAutoGUI to perform mouse movements, selection, and left-click actions based on specific hand gestures performed by the users.

INVOLVEMENT

Projects Program
The University of Texas at Dallas · AIS UTD · February 2025- Present

General Member
The University of Texas at Dallas · ACM UTD · September 2024 - Present
· Attend workshops to enhance networking, leadership, and technical skills.
· Engage in hands-on sessions covering industry trends and professional development.