

# Md Abrar Al Zabir

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## EDUCATION

### The University of Texas at Dallas

*Bachelor of Science in Computer Science*

Richardson, TX

*Expected May 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, ML (DL & NLP)

**Frameworks & Libraries:** React.js, Express.js, Node.js, Three.js, Tailwind CSS, NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV, TensorFlow, Keras, RAG, LangChain

**Databases & Tools:** MySQL, MongoDB, RESTful APIs, AWS, Git, GitHub, Postman, Firebase, Fast API, Flask

## EXPERIENCE

### Software Engineer | Machine Learning

Feb 2025 – Present

*AIS UTD*

*Richardson, TX*

- Developed an AI-powered eye health assistant capable of classifying diseases from different eye scans, and delivering personalized eye care suggestions.
- Trained and finetuned an InceptionV3 deep learning model using TensorFlow and Keras, preprocessing dataset using NumPy, Pandas, and OpenCV, and data augmentation via Scikit-learn, achieving 96.43% test accuracy.
- Built a context-aware AI chatbot using LangChain with a RAG pipeline on Mistral-7B LLM, on a domain-specific knowledge base.
- Utilized React.js and Tailwind for a fully responsive frontend, and implemented RESTful APIs to support backend and model inferences.

### Software Engineer | Full-Stack Developer

Dec. 2024 – Feb 2025

*Himmels Zenith*

*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.

## PROJECTS

### OpthoLlama | *Unsloth, PyTorch, Python, Large Language Models (LLM)* | [GitHub](#)

April 2025 – Present

- Fine-tuned the LLaMA-3 8B transformer model on the EyeQA dataset to improve ophthalmology QA performance.
- Used Unsloth and PEFT for efficient, low-resource adaptation of transformer-based architectures.
- Built the training pipeline using PyTorch, achieving a validation loss of 0.565, for seamless inferences.

### ProdDash | *React.js, Tailwind CSS, Express.js, Node.js, MongoDB, JWT* | [GitHub](#)

Dec. 2024 – Jan 2025

- Built a product management dashboard with React.js and Tailwind CSS, enabling CRUD operations and MongoDB Atlas integration for dynamic data management.
- Implemented order tracking and a JWT based authentication utilizing RESTful APIs and Axios, optimizing state management.
- Improved usability using React Router DOM for seamless navigation, and React-Toastify for real-time action alerts.

### Sustainify | *React.js, Tailwind CSS, PostgreSQL, Pandas, Scikit-learn, Flask* | [GitHub](#)

Nov. 2024 – Nov. 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.
- Utilized libraries such Pandas, Scikit-learn, and Chart.js with SambaNova's LLM to deliver tailored insights.

## ORGANIZATIONS

### Association of Computing Machinery (ACM UTD)

Sep. 2024 – Present

*General Member*