



Akib Raihan

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ABOUT ME

I am a Full-Stack Web Developer currently working at **Resolved.dev**, where I collaborate directly with clients to build scalable and maintainable applications. My current stack includes **Hono.js**, **Next.js**, **PostgreSQL**, and **Drizzle ORM**. On the frontend, I focus on creating clean, testable interfaces using **TanStack Query** and modern UI best practices.

Previously, I worked at **Sazim** as a **Trainee Software Developer**, where I used a similar stack with **Nest.js**, **Next.js**, **PostgreSQL**, and **MikroORM**. In both roles, I've taken ownership of **end-to-end (E2E) testing** using **Jest**, implemented version control with **Git Hub**, and contributed to agile development through tools like **Trello**, **Jira**, and **Plane.so**. I also work with **Docker** to streamline development and deployment through containerization.

WORK EXPERIENCE

DEV.RESOLVED – Dhaka

City: Dhaka

Software developer

[1 Jan 2025 – Current]

- Building backend services with Hono.js and Drizzle ORM on PostgreSQL.
- Assisting frontend development with Next.js for seamless integration.
- Designing scalable schemas and writing optimized SQL queries.
- Using Git for version control and team collaboration

SAZIM – Dhaka

City: Dhaka

Software developer

[1 Jul 2024 – 1 Dec 2024]

- Built full stack web apps using Next.js (frontend) and NestJS (backend).
- Designed and optimized PostgreSQL schemas with MikroORM.
- Developed and integrated RESTful APIs with frontend components.
- Used Git/GitHub for version control and code collaboration.
- Followed Agile Scrum methodologies; managed tasks with Trello.
- Gained experience in debugging, testing, and deployment

ADN Diginet – Dhaka, Bangladesh

City: Dhaka | Country: Bangladesh

AI Trainee

[7 May 2023 – 31 Aug 2023]

- Gained foundational knowledge in Machine Learning concepts, including Regression, Classification, SVM, Ensemble Learning, Random Forest, and XGBoost.
- Learned fundamentals of Natural Language Processing (NLP), such as text vectorization and response generation.
- Built a Potato Plant Disease Detection system using Convolutional Neural Networks (CNNs).
- Developed a basic chatbot leveraging NLP techniques for text processing and automated replies.
- Explored integration of AI models with front-end interfaces using React.js for visualization and user interaction.

Anchorblock Technology – Dhaka, Bangladesh

City: Dhaka | Country: Bangladesh

Quantitative Analyst

[1 Nov 2023 – Feb 2024]

- Analyzed stock market data using NumPy, Pandas, scikit-learn, and Zipline for backtesting trading strategies.
- Researched and applied technical indicators (ROC, RSI, MACD) to develop predictive trading models.
- Designed and implemented a stock price forecasting model using LSTM (Recurrent Neural Networks) for time-series prediction.
- Developed and tested multiple algorithmic trading strategies, evaluating performance through simulations.

SKILLS

TypeScript / JavaScript / Python (computer programming) / Docker / Git / SQL / Redis / Google (Google Drive, Google Docs, Google Slides, Google Sheets, Google Meets, Google Trends) / Microsoft Office

EDUCATION AND TRAINING

BSc in Computer Science & Engineering

Independent University, Bangladesh

City: Dhaka | Country: Bangladesh | Website: iub.ac.bd | Level in EQF: EQF level 6

LANGUAGE SKILLS

Mother tongue(s): Bangla

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

Bed4Tonight – Property Rental Platform

- Developed a platform for users to host properties and book short stays.
- Built a host dashboard for managing listings, viewing earnings, and tracking bookings.
- Integrated Stripe for payments and Stripe Connect for verification and payouts.
- Implemented OAuth, email, and Twilio-based phone verification for secure onboarding.
- Enabled property management, booking flows, and real-time updates.
- Ensured seamless user authentication and end-to-end booking experience
- **Tech Stack:** Next.js, Hono.js, Drizzle ORM, PostgreSQL, Stripe, Twilio, OAuth

Link: <https://bedfortonight.co.uk/>

SuperTeacher – Virtual Classroom Platform

- Developed a platform for teachers and students to connect virtually.
- Implemented real-time WebSocket group chat for class communication.
- Enabled teachers to create classrooms, assign quizzes, set exam schedules.
- Automated teacher registration with PIN-based onboarding.
- Built an email notification system for classroom invites and assignments. Allowed students to submit assignments and take quizzes online.
- Managed user authentication, profile updates, and password recovery
- **Tech Stack:** Next.js, Express.js, WebSockets, PostgreSQL, MikroORM, OAuth, Nodemailer

Links: <https://github.com/Akib-Raihan-4/super-teacher-server> | <https://github.com/Akib-Raihan-4/super-teacher-client>

Teacher Hub – Educational & Financial Management System

- Developed a comprehensive web application for teachers to manage classrooms, students, and finances with integrated dashboard analytics.
- Built secure authentication system using JWT tokens and Google OAuth with Passport.js for seamless user onboarding.
- Implemented classroom management features enabling teachers to create, organize, and track multiple classrooms with student assignments.
- Created financial tracking system for monitoring income, expenses, and generating detailed reports with visual analytics.
- Designed RESTful API architecture with rate limiting, security middleware, and background job processing using BullMQ.
- Deployed containerized application using Docker with Redis caching, Nginx reverse proxy, and PostgreSQL database.
- Engineered responsive frontend with real-time data synchronization and modern UI components for optimal user experience.
- **Tech Stack:** Node.js, Express, TypeScript, React, Next.js, PostgreSQL, Drizzle ORM, Redis, Docker, TailwindCSS, JWT, Google OAuth

Links: <https://github.com/Akib-Raihan-4/Teacher-hub-server> | <https://github.com/Akib-Raihan-4/Teacher-hub-client>

Potato Plant Disease Detection

- Built a deep learning model using TensorFlow & Keras to classify potato plant leaves into Early Blight, Late Blight, or Healthy, achieving 97% accuracy.
- Preprocessed and augmented image dataset (from Kaggle) with resizing, normalization, flips, and rotations to improve generalization.
- Trained the model with the Adam optimizer and sparse categorical cross-entropy loss across 50 epochs, tracking performance with Matplotlib visualizations.
- Developed a FastAPI backend to serve predictions and a React.js + HTML/CSS/JS frontend for an interactive user interface.
- Integrated the trained model with the web app, enabling users to upload plant images and receive real-time predictions.
- Demonstrated ability to combine machine learning, web frameworks, and visualization tools into a full-stack AI application.
- **Tech Stack:** TensorFlow, Keras, NumPy, Pandas, Matplotlib, FastAPI, React.js, HTML, CSS, JavaScript

Link: https://github.com/Akib-Raihan-4/Potato_disease_prediction

CatWiki

- Developed a web application that provides comprehensive information about various cat breeds sourced from TheCatAPI.
- Enabled users to explore detailed breed profiles, view images, and discover the top 10 most searched breeds.

- Implemented responsive design for an engaging and accessible experience across devices.
- Integrated Firebase for hosting, analytics, and user interaction tracking.
- Employed Tailwind CSS for sleek, utility-first styling and rapid UI development.
- Optimized data fetching and rendering using Next.js for improved performance and SEO.
- **Tech Stack:** Next.js, Firebase, Tailwind CSS, TheCatAPI

Links: <https://github.com/Akib-Raihan-4/CatWiki> | <https://cat-wiki-akib.vercel.app/>