

Tanvir Hasan

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Responsibilities

- **System Development (4+ Years):** Skilled in **designing**, implementing, and **deploying** end-to-end software solutions.
- **Architectural Expertise:** Proficient in **Model-View-Controller (MVC)**, **3-Tier Architecture**, and **Microservices**.
- **Database:** Database design, normalization, and implementation using **SQL** and **MongoDB** to ensure data integrity and scalability.
- **Project Management:** Ensure **on-time delivery** with an emphasis on quality and efficient resource **utilization**.
- **Deployment & Monitoring:** System deployment, **real-time monitoring**, **log analysis**, and performance optimization.

Work Experience

System Engineer at Nippon Cloud Co., Ltd.

Ueno, Tokyo, Japan

Sep 2023 - Present

- Developed AI Chatbot, File Management, and Vehicle Tracking systems.
- Created a VIP booking system with automated access codes.
- Deployed scalable systems with AWS, Docker, and auto-scaling.
- Enhanced system performance with real-time monitoring.
- Lead end-to-end project development and deployment

Software Engineer at ROOTs Edu.

Banani, Dhaka, Bangladesh

Nov 2021 - Apr 2023

- Collaborated with the CTO and VP of Engineering to plan and implement application improvements.
- Optimized backend APIs and database queries to ensure high performance and scalability.
- Delivered advanced features, including PDF editing, annotations, live video meetings, and subscription-based payments.
- Enhanced system performance through cross-team collaboration, supporting 100K+ active users.
- Consistently met deadlines by completing sprints ahead of schedule, ensuring timely project delivery.

Skills

Language	: JavaScript, TypeScript, C#, PHP, C++, Python.
Framework & Technology	: React.js, Node.js, Redux, Redux toolkit, Docker, Flask, WordPress, Jest, Next.js, Laravel.
Data Management	: Redux thunk, Redux toolkit, Datadog, Grafana, Open Search.
Database	: MongoDB(stagging, aggregation, pipeline), MS SQL, MySQL, Oracle, PostgreSQL.
Cloud	: AWS, Digital Ocean.
Tools	: Git, PowerShell, POSTMAN, Visual Studio Code, Slack, Atlassian Jira, Notion.
Operating System	: Linux, Windows, Mac.

Projects

View All: [Link](#)

RAG-Based Chatbot | Live: [Link](#) | Github: [Link](#) | Youtube: [Link](#)

- **Tech Stack:** React.js, Next.js, OpenAI, Pinecone, AWS, Docker, Stripe, Express.js, MongoDB, Node.js (JavaScript), Material UI.

Build and Integrate Your AI Chatbot – Add It to Your Website, Customize, Upload Data, and Automate Support Effortlessly!

Cloud File Management | Live: [Link](#) | Github: [Link](#) | Youtube: [Link](#)

- **Tech Stack:** Php, Mysql, Docker, Aws, Digital Ocean, OnlyOffice, Open AI, Shell Script.

Secure file storage, sharing and office management solution

Dog Club | Live: [Link](#) | Github: [Link](#) | Youtube: [Link](#)

- **Tech Stack:** React.js, Node.js, Gmail api, Wordpress, Xserver, Aws.

A booking system for Dog Club, built with WordPress and custom CSS, featuring automated backend-generated VIP entry codes for seamless user experience.

E-commerce Web Application | Github: [Link](#) | Youtube: [Link](#)

- **Tech Stack:** React.js, JavaScript, Redux, .NET Core, Socket.IO, C#, MS SQL.

Smart Solutions for Modern Stores: Manage Products, Orders, and Customer Support (Live Chat) Effortlessly.

Microfinance Management System | Github: [Link](#) | Youtube: [Link](#)

- **Tech Stack:** Java, MS SQL, NetBeans (IDE).

A Java (NetBeans IDE) desktop application integrated with MS SQL to manage client data, payments, and loan predictions. Streamlines microfinance operations with secure payment processing and predictive analytics.

Kids Learner | Github: [Link](#) | Youtube: [Link](#)

- **Tech Stack:** Java, Android XML, Android Studio (IDE).

An interactive Android app for children's education, built with Java, Android XML, and Android Studio. It features touch-based learning, funny quizzes, and educational lists to make learning engaging and enjoyable.

Education

Ahsanullah University of Science and Technology

Mar 2017 – Oct 2021

- **Bachelor of Science in Computer Science and Engineering** (CGPA: 3.159 out of 4.00)

- *Tejgaon Industrial Area, Dhaka-1208, Bangladesh.*

Cumilla Victoria Government College

Jan 2014 – Jan 2016

- **Higher Secondary Certificate** (GPA: 5.00 out of 5.00)

- *Kandirpar, Cumilla-3500, Bangladesh.*

Cumilla Modern High School

Jan 2009 - Jan 2014

- **Secondary School Certificate** (GPA: 5.00 out of 5.00)

- *Nazrul Avenue Cumilla Adarsha Sadar, Cumilla-3500, Bangladesh.*

Publications



Research Gate

- **A Comprehensive Approach to Enhance Dark Image Implementing Image Processing Techniques.**
- Apr 2022 | *Conference: 2022 International Conference on Smart Information Systems and Technologies (SIST).*
- **Bangla News Popularity Prediction Using Machine Learning Techniques.**
- Jan 2022 | *International Conference on Computational Intelligence and Innovative Technologies.*
- **Reinforcement Learning Based Dark Image Enhancement Through Color Feature Balancing.**
- **Machine Learning and Deep Learning Techniques For Genre Classification of Bangla Music.**
- Feb 2022 | *2022 International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE)*
- **Performance Comparison of Different Machine Learning Classifiers in Categorizing Bangla News Articles.**
- Feb 2022 | *2022 4th International Conference on Natural Language Processing (ICNLP)*

