

Shihab Sikder

AI/ML & FULL-STACK SOFTWARE ENGINEER · TECH LEAD

Mirpur-10, Dhaka, Bangladesh

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Summary

Tech Lead and Full-Stack Software Engineer with 3+ years of experience in AI/ML, web development, and system architecture. Currently leading hospital management software deployment across 10+ public hospitals in Bangladesh. Expertise in modern web technologies (React, Node.js, TypeScript), AI/ML (RAG, Computer Vision, NLP), and cloud infrastructure (AWS, GCP, Docker). Proven track record in building scalable applications with advanced AI capabilities and regulatory compliance.

Education

B.Sc. in Computer Science and Engineering

Gazipur, Bangladesh

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

Jan. 2019 - May. 2023

- Completed Computer Science and Engineering program under the Department of Computer Science and Engineering, Islamic University of Technology (IUT).

Projects

Gordian AI - Everstar

Generative AI

REGULATORY COMPLIANCE AI TRAINED ON MILLIONS OF NUCLEAR REGULATORY DOCUMENTS • [APP.EVERSTAR.AI]

April 2024

- Achieved 0% AI hallucination rate using advanced RAG architecture
- Manage regulatory complexity with confidence for market acceleration
- Tech: **Next.js, RAG, Generative AI**

Hospital E-Ticketing System

Full Stack Web Application

OPENMRS-COMPLIANT HOSPITAL TICKETING SYSTEM • [DMCH.BINDU.HEALTH, KGH.BINDU.HEALTH]

November 2023

- Deployed at DMCH, KGH, and 8+ public hospitals across Bangladesh
- End-to-end type safety using TypeScript for frontend and backend
- One-way OpenMRS data sharing with full compliance
- Tech: **React, Node.js, TypeScript, PostgreSQL, RTK**

Temp-Mail

Email Service

FULL-STACK DISPOSABLE AND REUSABLE EMAIL SERVICE • [TEMP-MAIL.LOL]

December 2023

- Reusable temporary email service with attachment support
- Real-time email delivery and storage system
- Tech: **React, Python, Flask, TypeScript, Chakra UI**

Algosketch

Desktop Application

DESKTOP APPLICATION TO VISUALIZE DATA STRUCTURES AND ALGORITHMS • [GITHUB]

July 2020

- Visualization for 5 sorting algorithms and 3 pathfinding algorithms
- Custom application engine with reactive UI design patterns
- Tech: **C++, SFML, CMake**

Skills

Languages C/C++ • JavaScript/TypeScript • Python • Dart

Frontend React • Next.js • RTK • Chakra UI • Tailwind CSS

Backend Node.js • Express.js • Flask • Django

Database & Tools PostgreSQL • MongoDB • GraphQL • Prisma • Git

DevOps & Cloud Docker • Ansible • AWS • GCP • EasyPanel • CyberPanel

Specialized RAG • Graph RAG • GIS • Computer Vision • NLP

Extracurricular Activity

BAF Shaheen IT Club

Dhaka, Bangladesh

FOUNDING MEMBER

Oct. 2016 - Mar. 2017

- Planned and organized events as a member of the club.
- Took sessions over Arduino

BigganBortika

EDITOR

- Performed SEO analysis
- Managed content with Wordpress

Dhaka, Bangladesh

Sep. 2016 - December. 2020