Shihab Sikder

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

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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

Dhaka, Bangladesh

Editor

Dhaka, Bangladesh

Sep. 2016 - December. 2020

- Performed SEO analysis
- Managed content with Wordpress