Md. Ashraful Islam

Full Stack Software Engineer

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SUMMARY

Full stack engineer with 6+ years of web development experience. For the last four years I have worked at Caretutors Technologies Limited on the parts of the platform people use every day: payments, reporting, notifications and internal tools. I joined as a junior engineer in 2022 and was promoted to Software Engineer in 2025. Before that I spent about three years freelancing, building WordPress sites and custom web apps for business clients. I work mostly in Node.js, Python, React and Next.js, and lately I have been doing more database performance work and building LLM features such as a RAG chatbot.

EXPERIENCE

Caretutors Technologies Limited · Dhaka — Dec 2022 – Present

Software Engineer — Jul 2025 – Present

- Built the reporting section of the internal admin dashboard, so internal teams can check activity and revenue data on their own.
- Rewrote the SQL aggregations and added indexes on a 15M+ row activity table. Reports that used to depend on batch exports now run on demand.
- Configured the app to send reporting queries to a read replica, which keeps heavy reads away from the primary database that handles transactions.
- Built a RAG chatbot that answers questions about the platform using the company's own content.
- Moved email delivery and Firebase notifications into shared service APIs, so every app uses the same service.
- Look after the SSLCommerz, bKash and Nagad payment flows, including callbacks, reconciliation and failed payments.

Junior Software Engineer — Dec 2022 – Jun 2025

- Integrated SSLCommerz, bKash and Nagad into checkout, including the callback handling for each gateway.
- Wrote REST APIs in Node.js and Python for the web and mobile apps, working with PostgreSQL, MySQL and MongoDB.
- Added Firebase push and in-app notifications for account and payment events.
- Built React and Next.js screens with login and role-based permissions.
- Tracked down slow queries and backend errors, and fixed them by rewriting the queries or the application logic behind them.

Web Developer · Freelance & OrdinaryIt.com · Rajshahi — 2019 – 2022

- Built business and e-commerce websites in WordPress, plus custom web apps with Django, Flask and React. Worked directly with clients from requirements to handover.
- At OrdinaryIt.com (2019 – 2021), fixed Blogger template, CSS and JavaScript problems reported by clients, including layouts that broke in some browsers.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, SQL
Frontend	React, Next.js, Tailwind CSS, HTML, CSS, WordPress
Backend	Node.js, Express.js, FastAPI, Django, Flask, REST APIs
Databases	PostgreSQL, MySQL, MongoDB, SQLite, SQLAlchemy, query optimization, indexing, read replicas
AI / LLM	LangChain, OpenRouter, RAG

Payments	SSLCommerz, bKash, Nagad
DevOps & Tools	Git, GitHub, Ubuntu Linux, Nginx, Gunicorn, DigitalOcean, Firebase Admin SDK

PROJECTS

AT CARETUTORS TECHNOLOGIES LIMITED

Admin Reporting on 15M+ Records

SQL, query optimization, indexing, read replicas

- Built on-demand activity and revenue reports for the internal admin dashboard, replacing reports that depended on batch exports.
- Made the reports fast enough to run live on a 15M+ row activity table by rewriting the aggregations, adding indexes and moving reporting reads to a read replica.

Platform Q&A Chatbot (RAG)

LLM, retrieval-augmented generation

- Built a chatbot that answers questions about Caretutors by first retrieving the relevant company content and then generating the answer from it.
- Because answers come from the company's own content, the bot explains how the platform actually works instead of giving generic replies.

Payments and Notification Services

Node.js, Python, SSLCommerz, bKash, Nagad, Firebase Admin SDK

- Integrated SSLCommerz, bKash and Nagad into checkout, and now maintain the full flow: callbacks, reconciliation and failed payments.
- Turned email delivery and Firebase push and in-app notifications into shared service APIs that several Caretutors apps use for account and payment events.

PERSONAL

Okkhor – Voice Typing for Windows

Python, Google Speech API | okkhor.roktimashraful.com

- Desktop app that lets you dictate text into other Windows programs, with support for Bengali.
- Grew to 1,000+ users organically, without any paid promotion.

AI SQL Agent

Python, FastAPI, LangChain, OpenRouter, MySQL | github.com/roktimashraful4/ai-sql-agent

- Ask a question in plain English and get the answer from a MySQL database. An LLM (through OpenRouter) writes the SQL.
- Only read-only queries are allowed. The tool checks each statement and blocks anything that would change data.

EDUCATION

B.Sc. in Computer Science and Engineering 2022 – Present
Northern University Bangladesh (NUB), Dhaka

Diploma in Engineering, Computer Technology 2017 – 2022
Rajshahi Polytechnic Institute, Rajshahi | CGPA 3.55 / 4.00

LANGUAGES

Bengali (native), English (professional working proficiency)