

Shakirul Hasan Khan

Software Engineer

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PROFILE

Dynamic Software Engineer with 4+ years building high-performance web and mobile apps, specializing in AI-powered conversational commerce and full-stack TypeScript development.

Founder & Lead Engineer of Ponno, architecting RAG chatbots and end-to-end AI solutions that drove early user engagement.

Expert in deploying production-grade systems with Next.js, React, Python/Flask, and Rust—focused on modular, testable code and CI/CD best practices.

Passionate about integrating machine learning into data-driven products, with growing expertise in Rust-based tooling and scalable AI pipelines.

EDUCATION

Shahjalal University of Science and Technology,

2018 – 2022 | Sylhet, Bangladesh

Bachelor of Science in Software Engineering

Final CGPA: **3.66**

Major CGPA (SWE courses): **3.85**

CGPA for last 4 semesters: **3.93**

PUBLICATIONS

BnPC: A Gold Standard Corpus for Paraphrase

2024

Detection in Bangla, and its Evaluation, *ELRA and ICCL* 🔗

- Introduced a benchmark dataset for Bangla paraphrase detection, achieving the highest F1 score of 87.91 with BanglaBERT.
- Dataset and code publicly available. (Link 🔗)

SKILLS

Languages & Frameworks

TypeScript, Python, Rust, NextJS, ReactJS, React Native, Flask

Front-End

Tailwind CSS, Jotai, Tanstack Query

Back-End

Express, PostgreSQL, Drizzle, Docker

Additional Tools/Technologies

Google Cloud, Expo, SST, TensorFlow, Pandas

PROFESSIONAL EXPERIENCE

Ponno, *Founder & Lead Engineer* [!\[\]\(529949c2c3dadbaa4e538e8c643454bc_img.jpg\)](#)

2025 – Present | Dhaka, Bangladesh

AI-Powered Conversational Commerce MVP

- Built & managed a team of 2 engineers, set sprints, conducted code reviews, and mentored resulting in on-time deliveries.
- Finalizing the MVP featuring:
 - A React/Next.js dashboard for merchants to create businesses and manage products & orders.
 - RAG-powered chatbot integration with Facebook Messenger (tool-calling + vector search) so customers can query products & place orders via chat.
- Led customer development, finalizing feature set, running demos, and gathering 10+ early leads to validate product-market fit.
- Tech stack: TypeScript, React, Node.js, ChromaDB, Vercel AI SDK, GitHub Actions.

Ramble, *Software Engineer* [!\[\]\(339a16584d5da0f0a3ca4e9ec17bf6a1_img.jpg\)](#)

2023 – Present | Remote, US

- Built a conversational platform enabling users to search and engage with contacts using RAG and LLM technologies.
- Developed a feature for document-based conversations and summary generation leveraging Python-based tools.
- Designed and implemented a rich text editor with real-time collaboration using PlateJS and PubNub.
- Built and tested a web application with NextJS, TypeScript, and Playwright for enhanced user experience.

Traders Connect, *Contract iOS Developer* [!\[\]\(3211b5d1d968fc1665909b34f9f16010_img.jpg\)](#)

2023 – 2024 | Remote, UK

- Developed native modules in Swift for seamless gRPC server integration with React Native.
- Built a reusable component library for cross-platform mobile apps using styled-components.
- Engineered a mobile application with over 20 screens using React Native, ensuring optimal performance.

Re:cruit, *Software Engineer*

2022 – 2023 | Remote, US

- Created a resume-building application with NextJS, TypeScript, and PostgreSQL, integrating OpenAI for content generation.
- Designed comprehensive test suites with Jest and Playwright for NextJS applications.
- Implemented secure authentication systems and data analysis tools using Python and MagicLink.

Kaz Software, *Associate Software Engineer* [!\[\]\(f60b7a900783ac3fd531bfd9c111be6d_img.jpg\)](#)

2021 – 2022 | Dhaka, Bangladesh

- Designed and implemented over 40 pages for a dual-user interface web application using ReactJS, Redux, and SCSS.
- Upgraded web applications from ReactJS v16 to v18, improving performance and scalability.
- Merged multiple ReactJS applications into a micro-frontend platform using Single-SPA and Docker.

CERTIFICATES

- IELTS - Overall Band Score: 7.5 [!\[\]\(6c117786eacd86d9626685ebfb559b77_img.jpg\)](#)
- Deep Learning Specialization - Coursera [!\[\]\(a2437798f31357d2bea910e1270385bf_img.jpg\)](#)
- TensorFlow Developer Specialization - Coursera [!\[\]\(9dd987eb45b20044d8d046315fd0a871_img.jpg\)](#)