

Shakirul Hasan Khan

Software Engineer

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PROFILE

Software engineer with 4+ years of experience building and scaling web & mobile applications using Next.js, ReactJS, Python, and Flask. Founder & Lead Engineer of Ponno, specializing in AI-powered conversational commerce, RAG-driven chatbots, and full-stack TypeScript development. Passionate about integrating machine learning into intuitive, high-performance products.

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

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

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* [🔗](#)

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* [🔗](#)

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.

PROJECTS

Vocables, *A vibe-coded vocabulary learning app with the help of AI* [🔗](#)

Tech: NextJS, Typescript, Clerk, Polar, Vercel AI SDK

Coterm, *A command-line AI copilot built with Rust and OpenAI API.* [🔗](#)

Tech: Rust, NextJS, Vercel

Re:sume, *A web application that utilizes AI to create and enhance resumes, ultimately converting them into PDF format.* [🔗](#)

Tech: NextJS, ReactJS, PostgreSQL, Prisma, OpenAI API

EDUCATION

Shahjalal University of Science and Technology,

2018 – 2022 | Sylhet, Bangladesh

Bachelor of Science in Software Engineering

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.

CERTIFICATES

- Deep Learning Specialization - Coursera [🔗](#)
- TensorFlow Developer Specialization - Coursera [🔗](#)