

# SHAHORAR AHMED

Lead Software Engineer @GCO | Building LLM-powered AI Agents

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## PROFESSIONAL SUMMARY

Self-taught, passionate full-stack web developer with 3+ years of experience specializing in the MERN stack. Proven track record of building scalable applications with Node.js, Express.js, and databases like MongoDB, MySQL, and PostgreSQL, alongside responsive React.js frontends and full-stack Next.js projects. Successfully completed full web app infrastructure for three organizations, including web servers, websites, and mobile apps. Skilled in IoT (Raspberry Pi, NodeMCU) and currently expanding expertise in cutting-edge technologies including AI agents, Langchain.js, vector databases, RAG (Retrieval-Augmented Generation), and Apache Kafka for event-driven architectures.

## TECHNICAL SKILLS

### Programming Languages:

TypeScript, JavaScript (Proficient) | Go, Python (Knowledge)

### Frameworks & Libraries:

Next.js, React.js, Express.js, Expo, Hono.js (Proficient) | NestJS, Gin (Knowledge)

### AI & Machine Learning:

Langchain.js, LangGraph, AI Agents, Vector Databases, RAG (Retrieval-Augmented Generation)

### Databases:

MySQL, PostgreSQL, MongoDB

### Message Queues & Streaming:

Apache Kafka, Event-Driven Architecture

### Tools & Technologies:

Docker, OAuth, JWT, REST APIs, Git, GitHub, Linux Terminal

### Cloud Platforms:

AWS, Digital Ocean, Vultr, Heroku

### IoT & Hardware:

Raspberry Pi, NodeMCU

## PROFESSIONAL EXPERIENCE

### Junior Full Stack Developer

2023 – Present

Global Community Organization | Bagha, Rajshahi

- Solely developed a full-stack application powering entire office operations
- Implemented secure user authentication, admin controls, and real-time analytics
- Manage over 300,000 tree records and 50,000+ child records with continuously growing data
- Support 80+ employees with daily/monthly report generation and data management

### Front End Developer

2021 – 2023

Xemiron IT Solutions | Vodra, Rajshahi

- Developed responsive web applications using modern JavaScript frameworks
- Collaborated with design and backend teams to deliver pixel-perfect user interfaces
- Optimized application performance and ensured cross-browser compatibility

## EDUCATION

### B.Sc in Computer Science and Engineering

2021 – 2025

Varendra University, Rajshahi

Final Project: Full Stack Gym Management System

## CERTIFICATIONS

### Cloud Essentials Knowledge

Grade: A+ | 2025 | [Link](#)

### Reactive Accelerator

React Advanced, Next.js, MongoDB | Score: 85.15% | 2022 | [Link](#)

### Think in a Redux Way Course

React Redux, Redux Toolkit | Score: 89.29% | 2022 | [Link](#)

# PROJECTS

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## Global Community Organization App (Privet) [Blog](#)

Technologies: Next.js, TypeScript, NextAuth, PostgreSQL, Shadcn/ui

- Full-stack application from front-end to back-end and database
- Secure user authentication, admin controls, and real-time analytics
- Manages 300,000+ tree records and 50,000+ child records
- Supports 80+ employees with daily report generation

## ERP System [Github](#) [Live](#)

Full-stack inventory management solution for small business

- Built with modern technologies focusing on performance and scalability
- Complete inventory management with user authentication and role-based access
- Features: product management, order processing, and reporting
- Multiple branches and warehouses support

## AI-Powered E-Commerce App with Natural Language Control [Github](#) [Video](#)

Technologies: Next.js, tRPC, Hono, Prisma, LangChain.js, Google Gemini AI, Socket.io

- Revolutionary e-commerce interface controlled entirely through natural language commands
- Voice-to-action functionality: "Search for gold product", "Add first product to cart"
- Real-time UI updates using Socket.io for instant user interactions
- Type-safe client-server communication with tRPC and SEO-optimized SSR product pages