

Shah Alvi Hossain

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WORK EXPERIENCE

Blok Feb. 2025 – Present

Lead Backend Engineer

Remote - (Chicago Based)

- Architected and maintained a TypeScript/Node.js backend with Express, modular routers, and strongly typed DTOs/DAOs.
- Secured endpoints using Json Web Token middleware and implemented role-based access patterns.
- Engineered and integrated a Socket Service for real-time notification delivery and event streaming, including native Apple Push Notification support.
- Documented APIs with Swagger/Open API and maintained interactive API docs for internal teams.
- Implemented robust error handling and Sentry integration for automated alerting and performance tracing.
- Built reusable utilities (Try Catch, Query, Response) to streamline controller logic and reduce bugs.

Non-Profit Software Development Group

Aug. 2024 – Present

Frontend Engineer (Open-Source Contributor)

Dearborn, MI, United States

- Lead Frontend Engineer for dearborncodingclub.com, using React and TypeScript for responsive, reusable code.
- Assisted in backend division into an Authentication server (Go) and API server (Python).
- Implemented Json Web Token based Auth Service for frontend security.
- Developed universal providers and reusable UI components (cards, carousels, indicators, pagination, notifications) with TypeScript, JSX, and CSS.

Reve Systems

Dec. 2022 – May. 2023

Full Stack Software Engineer

- Led the CMIS project, connecting front-end and back-end systems.
- Developed a digital signature solution for real-time document verification, now used by 58 officials.
- Linked the signature system to legacy platforms, speeding up processing of 25+ documents monthly.
- Conducted interactive training sessions with 50+ end users at The Parliament House of Bangladesh; feedback revealed an increase in operational efficiency.

Loosely Coupled Technologies

Jul. 2022 – Nov. 2022

Software Engineer

- Integrated EZ Assist CRM with third-party API, reducing manual entry time.
- Rebuilt invoice system, cutting printing costs by 52%.
- Created UI components that improved navigation by 35% and boosted productivity.
- Updated features, reducing support inquiries within three months.

EDUCATION

North South University

May. 2022

Bachelor of Science in Computer Science and Engineering

SKILLS & INTERESTS

- **Programming Languages:** TypeScript, JavaScript, C, Java, Python, HTML, CSS, Java, SQL
- **Frameworks and Others:** React JS, Express JS, Node JS, Servlet, Supabase, jQuery, Git