

Iram Tazim Hoque

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EXPERIENCE

BeyondEdge Networks

Richardson, TX

Software Engineer

Oct 2023 – Present

- Built and maintained a modular **React + TypeScript** microfrontend architecture for an SD-LAN management GUI shipped to multiple enterprise customers, using **React Router**, **Redux Toolkit**, and **React Query** for navigation, state, and data fetching.
- Incrementally migrated ~70% of a legacy JavaScript GUI to a modern **React + Mantine** component architecture across microfrontends, recently adopting **Syncfusion** component suites, without disrupting active deployments.
- Built a front-end data-validation layer (~200 tests) that checks backend data models against the models the UI consumes, reducing backend-to-frontend data-model bugs by ~30%.
- Partnered with backend and network engineering teams on **REST API** contracts and shared data models, contributing to sprint planning, code reviews, and documentation in **Jira/Confluence** to improve end-to-end delivery.
- Maintained the GUI's **CI/CD** pipelines and **Docker** build configurations with DevOps engineers, keeping front-end releases reliable across customer deployments.
- Contributed to integrating an **AI-powered chatbot** into the SD-LAN dashboard for natural-language network automation; use agentic coding tools (**Copilot**, **Codex**, **Claude**) daily across implementation, debugging, and test scaffolding.

BUET

Dhaka, Bangladesh

Full Stack Developer (Part-time)

Jan 2020 – Nov 2020

- Built full-stack healthcare-analytics web apps (**AngularJS**, **Node.js/Express**, **MongoDB**, REST APIs), including a cervical-cancer detection tool designed with clinicians.

SKILLS

Frontend: React (19), TypeScript, JavaScript (ES6+), Redux Toolkit, React Query, Zustand, Mantine, Syncfusion, Vue 3, HTML5, CSS3/SCSS, Accessibility (WAI-ARIA), Tailwind, Vite, Webpack, Vitest, Jest, React Testing Library.

Backend: Go, Java (Spring Boot), Node.js/Express, Python, Rust (Axum), REST APIs, PostgreSQL, DynamoDB, MongoDB, Redis, Flyway, JPA/Hibernate.

Cloud & DevOps: AWS (Lambda, DynamoDB, SQS, API Gateway, S3), AWS CDK, Docker/Compose, GitHub Actions, CI/CD, Testcontainers, Swagger/OpenAPI, Jira, Confluence, Git, Mercurial.

AI & Agentic Dev: GitHub Copilot, Codex, Claude, OpenAI APIs, PyTorch.

EDUCATION

Purdue University

West Lafayette, IN

MS in Computer Science, GPA: 3.50/4.00

Graduation: May 2023

- **Graduate Teaching Assistantship** (Jan 2021 – May 2023): Mentored ~200 CS sophomores in C, C++, DBMS, and AI.

Bangladesh University of Engineering and Technology (BUET)

Dhaka, Bangladesh

BS in Computer Science, GPA: 3.90/4.00

Graduation: Dec 2018

SELECTED PROJECTS

StatusForge

v0.6.0, 2026

- Built a local-first uptime and job monitor that checks HTTP endpoints, tracks scheduled jobs through heartbeats, and manages incidents and alerts, shipped as one **Go** binary with an embedded **React 19 + TypeScript** dashboard on **DynamoDB**, plus a synthesis-only **AWS CDK/Lambda** deployment path.
- Designed crash-safe scheduling that never double-counts or silently skips a check (missed slots are shown as explicit gaps); measured ~10 checks/s with zero misses at 100 monitors and clean recovery from process restarts and database outages; 380+ Go/Vitest tests with race detection and security scanning in **GitHub Actions**.

HouseSync

Live: hsync.ihoque.com, 2026

- Built and self-hosted a household finance app where members track private accounts, share selected expenses, split costs, and explore spending insights, on **Spring Boot 4 (Java 21)**, **PostgreSQL 17**, and a mobile-first **React 19 + TypeScript** UI, with optional Plaid bank sync and AI categorization.
- Guarantees every cent is accounted for in splits and refunds, enforces privacy in the database query layer rather than the UI, and makes writes idempotent so retries after network failures never duplicate records; 1,500+ tests (unit, **Testcontainers** PostgreSQL integration, Vitest) with **Flyway** migrations and GitHub Actions CI.

InsightBoard

Feature Complete

- Built a full-stack analytics dashboard on **Vue 3 + Pinia** and **Rust (Axum)**, **PostgreSQL**, and **Redis**, aggregating external APIs into a customizable real-time insight workspace with typed API contracts, caching/fallback handling, and modular widgets.

Open Source: Mantine, Spring Boot

2026

- Fixed screen-reader accessibility bugs in **Mantine**'s selects, sliders and tree views, and a **Spring Boot** bug that broke MongoDB connections when credentials contained special characters; four PRs with regression tests, merged by the projects' maintainers.