

## Education and Certifications

---

**B.Sc. Computer Science**, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh **2019–Present**

- Currently working on an LLM based Question Answering tool for smart home related security and privacy issues.
- Related Coursework - Compilers, Operating Systems, Computer Networks, Database, DSA, Software Engineering
- Serving as Vice Chairperson of IEEE Computer Society BUET Student Branch

## Projects

---

**CineConnect** — A Comprehensive Web Platform for Cinema Enthusiasts

- Developed a web platform using Next.js, Express.js on Node.js, and Supabase PostgreSQL, featuring user profiles, movie pages, forums, and review systems with upvote/downvote capabilities.
- Integrated Google Location API for theater information and showtimes, and built a marketplace for movie-related merchandise.
- Implemented real-time messaging and notifications to enhance user interaction.

**Vaxhub** — An online vaccination system (BUET CSE FEST - DevOps Hackathon 2023)

- Utilized Jest for unit testing and Supertest for API testing; implemented a CI/CD pipeline using GitHub Actions for testing, Docker packaging, and container registry updates.
- Configured Docker for containerization and Kubernetes for orchestration, including Docker builds, deployments, and kubectl management.
- Established continuous monitoring with Prometheus and Grafana for metric collection and visualization, and configured autoscaling in a Linode Kubernetes cluster to dynamically adjust resources.

**Football Club Manager** — Desktop App for Player Management

- Developed a UI application using JavaFx in Java
- Implemented multithreaded socket programming for client-server communication
- Built searchable database and real time player exchange

**Compiler** — Subset of the C compiler

- Developed a multi-stage compiler in C
- Implemented front end using flex, bison and On the fly Code generation for backend

## Work Experience

---

**Technical Executive** **School of Skills** **2019–2020**  
Dhaka, Bangladesh

- Contributed to launching numerous free courses on programming languages and web development, taught by industry experts.
- Aimed to provide learners the opportunity to acquire and enhance their skills in these fields at no cost.

## Awards

---

- **DevOps Champion** - BUET CSE FEST 2023
- Won **60% scholarship** at PTAK Case Competition 2021

## Technologies and Languages

---

- Languages: C, C++, Java, JS, Python, HTML
- Tools: Git, Github Actions and Projects, Linux, Bash, Docker, Supabase
- Frameworks: Nodejs, Express, CSS, Bootstrap, Oracle, React, Next, Pandas, PostgreSQL