Mohammad Borhan Uddin

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Summary

Computer Science graduate and competitive programmer who builds full-stack web applications with React.js, Next.js, Node.js, Express.js and TypeScript and works on AI engineering with TensorFlow, BanglaBERT, YOLO and LangChain.

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, PHP, SQL
Frontend: React.js, Next.js, Tailwind CSS, Material UI, shadcn/ui, Bootstrap
Backend: Node.js, Express.js, REST APIs
Databases & ORM: MySQL, MongoDB, Firebase, Prisma, Mongoose
AI/ML: Scikit-learn, PyTorch, TensorFlow, Hugging Face Transformers, YOLO, LangChain
Tools & Platforms: Git, GitHub, Stripe, Vercel, Postman

Education

Noakhali Science and Technology University Noakhali, Bangladesh
B.Sc. (Engg.) in Computer Science and Telecommunication Engineering; CGPA: 3.60/4.00 2022 – 2026

- Relevant coursework: Data Structures, Algorithms, Software Engineering, Database Systems, Artificial Intelligence, Machine Learning

Projects

University Complaint Management System | *React.js, Express.js, MySQL, Firebase, Material UI* Live | GitHub

- Built a full-stack complaint portal with role-based access for admins and users, covering submission, assignment, status tracking and real-time notifications.
- Restricted sign-in to university email domains using Firebase Authentication, blocking outside accounts.
- Selected by NSTU for university-wide deployment;

ShopVerse – E-Commerce Platform | *Next.js, TypeScript, Prisma, MySQL, Stripe, Pinata (IPFS)* GitHub

- Developed product, category, cart and order management with role-based access control for admin and customer accounts.
- Integrated Stripe Checkout for secure online payments and stored product media on IPFS through Pinata.

Advanced Task Manager | *React.js, Express.js, MongoDB, Passport.js, Google Calendar API* Live | GitHub

- Implemented two-factor authentication with TOTP QR codes using Passport.js.
- Built two-way sync with Google Calendar so tasks and events created in the app appear in the user's calendar and vice versa.

PetSoft – Pet Management SaaS | *Next.js, TypeScript, Auth.js, Prisma, Zod, Stripe, shadcn/ui* Live | GitHub

- Built a subscription-based app with Stripe payments, Auth.js authentication and Zod-validated server actions.

NSTU Cover Page Generator | *JavaScript, Tailwind CSS, PWA* Live | GitHub

- Built an installable PWA that generates formatted lab-report cover pages and indexes; used by 7000+ NSTU students/monthly since 2022.

Research

Undergraduate Thesis: Evidence-Grounded Multimodal Fact Verification for Bangla News
PyTorch, BanglaBERT, EfficientNet-B0, PHP, Python 2026

- Benchmarked a proposed multimodal fusion model (LACR-Fusion) against text-only BanglaBERT, image-only EfficientNet-B0 and simple-fusion baselines on 9,600 Bangla news text–image pairs, achieving 0.83 macro-F1.
- Ran leakage audits, missing- and mismatched-image stress tests, and calibration (ECE 0.156 → 0.031), showing that the models rely mainly on text and gain little from the image.
- Built a distributed evidence-collection and annotation platform, modeled on FEVER and AVeriTeC, with role-based access, independent multi-reviewer verification and adjudication; it collected 21,133 articles from 72 Bangla news sources. Live Platform

Competitive Programming

- **CodeChef:** 4-star (max 1880) | **Codeforces:** Pupil (max 1360) | **LeetCode:** max 1560
- **Champion (Junior Segment)**, NSTU Intra University Programming Contest - September 2022 by CSTE Club
- **Champion (Junior Segment)**, NSTU Intra-University Programming Contest, 2022 by ICE Club
- **3rd Place**, NSTU Intra-University Individual Programming Contest, 2022
- **6th Place**, NSTU Intra-University Programming Contest, 2023