

MD. FARHAN SADIK

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EDUCATION

BRAC University

B.Sc. in Computer Science and Engineering

- Relevant Coursework:** Software Engineering, System Analysis & Design, Natural Language Processing, Blockchain & Cryptocurrency, Data Structures & Algorithms.

Dhaka, Bangladesh

Jun 2021 – May 2025

ACADEMIC PROJECTS

Academic Journal Publish Website | *Next.js, MongoDB, TypeScript, NextAuth.js, SCSS* | [Journal Website](#)

- Built a full-stack academic journal platform supporting end-to-end workflow: submission → peer review → editorial decision → copyediting → publication.
- Integrated Google OAuth with role-based access and promotion system, ensuring secure multi-level editorial control.
- Enabled real-time manuscript tracking, email notifications, and manual payment processing via bank transfer.

[GitHub](#)

Mini Design Editor App | *React Native, Expo, TypeScript, Skia, Reanimated* | [Download the App](#)

- Built a cross-platform mobile design editor with canvas rendering via Skia, enabling real-time drawing and manipulation.
- Integrated gesture-based interactions (drag, pinch, zoom) using Gesture Handler and smooth 60fps animations with Reanimated.
- Enabled adding styled text, importing images, creating shapes, and exporting designs as PNGs.

Missing Link | *Solidity, React.js, Web3.js, Truffle, Docker*

- Built a decentralized application (DApp) for secure reporting and tracking of missing individuals using smart contracts on Ethereum.
- Implemented case tracking, appointment booking, and investigator dashboard to enhance public transparency and support.
- Integrated MetaMask, Ganache, Truffle for local testing and Docker for containerized deployment.

Tailor Maven | *MERN, Stripe, Socket.io, React Three Fiber* | [TailorMaven Website](#)

- Developed an online tailoring platform with 3D suit previews, real-time customization using React Three Fiber, and live chat.
- Integrated Stripe payment gateway and OAuth2.0 login system for secure and seamless transactions.
- Built admin dashboard with order tracking and gifting features for improved user experience.

House Rental Website | *Django, SQLite, HTML/CSS*

- Designed a city-specific rental platform with searchable listings and booking functionality.
- Implemented an admin panel to manage property data and access control.
- Focused on ease-of-use for individuals relocating to Dhaka.

ACADEMIC THESIS

A Deep Learning Approach of Translating Speech into 3D Hand Sign Language (ASL)

Jan 2025

- Proposed a deep learning pipeline to convert speech into 3D ASL animation using speech-to-text, gloss translation, and keypoint mapping.
- Utilized Whisper, BART, MarianMT, OpenPifPaf, RTMPose3D, ResNet50, MediaPipe, and LSTM trained on the How2Sign dataset.

TECHNICAL SKILLS

Languages: Python, C, JavaScript, TypeScript, HTML, CSS

Blockchain: Solidity, Truffle, Ganache, MetaMask, Docker

Version Control: Git, GitHub

Web Development: ReactJS, React Native, Django, MERN Stack, NextJS

Databases: MySQL, MongoDB

Productivity Tools: Microsoft Excel, Word, Power-Point

EXTRACURRICULAR ACTIVITIES

Capture The Flag (CTF) Competitions

- Ranked **8th** in the final round of **BUET CTF 2024**, organized by BUET Cybersecurity Club.
- Secured **5th** place in the final round of **EWU CTF 2024**, hosted by East West University Robotics Club.