MAHFUZ HASAN REZA



Novice Software Engineer | Next.js · React · Node.js · PostgreSQL

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mahfuzhasanreza mahfuzhasanreza learn-with-mahfuz

PROFESSIONAL SUMMARY

Full-stack developer who builds and deploys web applications with Next.js, React, Node.js, MongoDB, and PostgreSQL. Built a client's e-commerce platform end to end as a freelancer and led the software for a CanSat team ranked 7th worldwide. Seeking a full-time Software Engineer role.

WORK EXPERIENCE

Full-Stack Developer (Freelance)

Aurora Holdings Limited

Jan 2026 – Nov 2026

- Built Jogar, a client-commissioned e-commerce platform, end to end with Next.js, Node.js, and MongoDB
- Owned the frontend architecture, backend APIs, database design, and deployment, working directly from client requirements

Software Sub-team Lead

UIU CanSat

Nov 2024 – Sep 2025

- Led a 3-member software sub-team, managing tasks in Notion and version control with Git/GitHub
- Built the flight software in C++ (PlatformIO, Teensy 4.1) and the ground control software with Svelte, JavaScript, HTML, CSS, and TailwindCSS
- Implemented the command and mechanism control system with two-way XBee data and command communication between ESP32 and Teensy 4.1; earned a full software score at the AAS CanSat Competition 2025

Undergraduate Assistant

Dept. of CSE, United International University

Jul 2026 – Oct 2026

Supported students in the Database Management System Laboratory with lab tasks, SQL queries, and database concepts

PROJECTS

CrackIt — Next.js · PostgreSQL · Prisma
Interview-preparation tracker web app, deployed on Vercel with a Neon PostgreSQL database

Kawan — React · Node.js · Express.js · MongoDB
Full-stack mental-health and self-development platform with AI-driven guidance, community support, and an admin panel

SlideBanai — Next.js
Web app for creating and practicing presentations; built the frontend

PlantSense — React · Node.js · Express.js · MongoDB · Firebase
Plant disease detection system using ESP32-CAM and Raspberry Pi 5 for image capture and classification, with a web app that displays results

FundMate — React · Node.js · Express.js · MongoDB · Firebase
Peer-to-peer loan and crowdfunding platform with loan offers, digital agreements, and repayment tracking; worked full stack in a team

EDUCATION

B.Sc. in Computer Science & Engineering

United International University

Feb 2022 – Oct 2026 CGPA: **3.91** out of 4.00

SKILLS

Programming: JavaScript, TypeScript, C, C++, Java
Frontend: React, Next.js, HTML, CSS, TailwindCSS
Backend: Node.js, Express.js, REST APIs, Prisma
Databases: SQL, PostgreSQL, MongoDB, Firebase
DevOps & Cloud: Docker, CI/CD (GitHub Actions), Vercel, Neon, Hostinger
Tools: Git/GitHub, Linux, Notion, Jira
Embedded: Embedded C/C++, ROS2, PlatformIO
Soft Skills: Teamwork, Teaching, Problem Solving, Video Editing
Languages: Bangla, English

ACHIEVEMENTS

- **7th worldwide, 2nd in Asia, 1st in Bangladesh:** AAS CanSat Competition 2025, Virginia, USA; full score in the software subsystem, which I led
- **Champion:** Senior Programming Contest (individual), UIU CSE Week 2023
- **UIU CSE Project Show:** Champion, Spring 2025 (SlideBanai); 1st Runner-Up & Best Poster Award, Fall 2024 (Kawan)
- **300+ problems solved** in C++ on Codeforces, CodeChef, HackerRank, and LeetCode (handle: mahfuzhr)

LEADERSHIP & ACTIVITIES

Founder & Instructor

Learn With Mahfuz

Feb 2024 – Present

Run a Bangla tech-education channel with live sessions and 145+ videos on programming, web development, and databases; 95,000+ viewers and 1,200+ subscribers

Head of Academic & Growth

UIU App Forum

Sep 2024 – Oct 2025

Ran development workshops and seminars

Grader

Dept. of CSE, UIU

Feb 2023 – Jan 2024

Graded DSA, OOP, DLD, and Discrete Math

Mentor

UIU CSE Project Show

Summer 2024

Guided student teams on their projects

RESEARCH

Co-author, **Pole or Vector? Encoders Capture Bangla Compound Verbs, but LLMs Read Them Literally**, *arXiv preprint* arXiv:2611.10909, 2026