

Md. Mehrab Haque

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Flat# C2, 11/7, Tropical Uttarshuri, Box Culvert Road, Karwan Bazar, Dhaka, Bangladesh

Professional Summary

Software Engineer with **5+ years** of experience building web platforms, real-time systems and AI-based products for teams in Bangladesh, India, Canada and the US. At Synesis IT, led the system design and rollout of a video conferencing platform that runs meetings with **10,000+ participants**. Works across the stack, from system design and backend services to frontend, deployment and production support. CSE graduate from BUET, ranked **1st in the BUET admission test**.

Skills

Languages	JavaScript, TypeScript, Python, Java, C, C++, SQL
Backend	Node.js, Express, REST APIs, WebRTC, WebSockets
Frontend & Mobile	React, Angular, HTML, CSS, Material UI, Android (Java)
Data & Storage	Oracle, relational database design and ERD, Firebase, data analysis with Python
Cloud & DevOps	AWS, Firebase Cloud Functions, Linux servers, deployment and production debugging
Architecture	System design for high concurrency, MVC and MVVM, clean code, code review
AI	LLM-based features, AI-driven automation, computer vision and image generation models

Professional Experience

Software Engineer II

November 2024 - Present

Synesis IT PLC · Full-Time · Dhaka, Bangladesh

- Led the system design, development and deployment of **Convay Big Meeting**, a video conferencing platform that runs meetings with **10,000+ participants**.
- Designed the architecture to keep meetings stable and responsive at that scale, from session handling through to deployment.
- Took features from design through development to production rollout, working with cross-functional teams to ship a reliable platform.
- Promoted from Software Engineer I to **Software Engineer II** within a short period on the recommendation of technical leads.

Software Engineer I

June 2024 - October 2024

techjays · Full-Time, Remote · Tamil Nadu, India

- Built AI-driven products for clients, including an **employee productivity tracking system**.
- Developed an **automated hiring system** to speed up applicant screening.
- Built an **emergency notification system** that delivers alerts over a peer-to-peer network.

Software Engineer

March 2024 - May 2024

NameShouts · Full-Time, Remote · Quebec, Canada

- Maintained and shipped releases of the NameShouts flagship product, which helps **multinational schools** pronounce names correctly.

Software Engineer (Backend)

June 2023 - February 2024

OPlusDojo · Full-Time, Remote · Dhaka, Bangladesh

- Built **Pulse Intel**, an AI-based tool that analyzes the social media presence of political candidates, used during the **2026 Bangladesh national election**.
- Worked on the system design and development of **Elora**, an AI-based care coordination service for patients in the US.

Software Developer

October 2021 - March 2022

ICT Cell, BUET · Part-Time, Hybrid · Dhaka, Bangladesh

- Developed and shipped the BUET recruitment system, which takes **1,000+ applications every month**.
- Handled project planning, system design and frontend development for the system.

Junior Data Analyst

February 2021 - May 2023

Free Pixel Games Ltd. · Part-Time, Remote · Dhaka, Bangladesh

- Analyzed performance data for **game ad creatives** to guide which creatives to scale.
- Wrote APIs and scripts to collect campaign data, and used AI models to support creative analysis.

Projects

HRWave · hrwave.vercel.app

Next.js, Python, LangChain, LangGraph, AWS Lambda

AI recruitment platform that reads CVs, scores and ranks candidates, and answers questions about them.

e-GP Tracker · egp-beta.vercel.app

Next.js, Python, Playwright, Vercel, AWS

Scrapes and tracks every public tender in Bangladesh, **636,000+** so far, with bid-fit filters and an API.

Skillbridge · github.com/mehrab-haque/skill-bridge

Django, Python, SQLite

Freelance marketplace that holds the client's budget in escrow and releases it on terms both sides signed.

Satellight · satellight.netlify.app

React, Firebase, Android, Arduino

NASA Space Apps 2020 honorable mention. Explore satellites in map, 3D, first person and VR views.

Education

Bangladesh University of Engineering and Technology (BUET)

2019 - 2023

Bachelor of Science in Computer Science and Engineering

Achievements

Global Winner Honorable Mention, NASA Space Apps Challenge 2020, with [Satellight](http://satellight.netlify.app) · October 2020

Ranked 1st in the BUET Admission Test, featured in Prothom Alo · October 2018

Global Finalist, NASA EO Dashboard Hackathon, with PixelGrow

Campus Finalist, Hult Prize 2023, with Garmeta

Top 30, ideaTHON 2020, with Eco-Transformer