

Mahir Faysal Haque Dipto

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EXPERIENCE

RN-JobForce

June 2025 – Present

Full Stack Developer & System Designer

London, GB (Remote)

- Deployed the platform on AWS EC2 using S3, ALB, and NGINX reverse proxy
- Led system design and delivery across backend, frontend, and infrastructure while guiding contingency developers on daily execution
- Set up DevOps workflows with Docker, deployment automation, and production monitoring to support stable and reliable releases
- Worked with OpenAI and prompt engineering, improving response quality and consistency; learned to design clearer prompts and stronger validation for production use
- Improved platform security through API hardening, access-control reviews, and internal pentesting

Pryntmart

May 2025 – Jan 2026 (Product Build), Ongoing Maintenance

Full Stack Developer

New York, USA (Remote)

- Built a custom-printing e-commerce platform using Next.js 15, Go (Gin), PostgreSQL, Redis, and Docker on VPS
- Developed a browser-based design editor (Fabric.js) with autosave, templates, high-resolution export, and cart integration
- Integrated Stripe checkout with webhook validation and role-based admin access
- Integrated Shippo for shipping workflows and MinIO for object storage across product and order assets

Progress IT Solutions

May 2024 – Aug 2024

Software Developer

Dhaka, Bangladesh

- Built a C# video processor with FFmpeg, including 15 custom shaders and OpenCV-based frame interpolation
- Developed a Windows app (WPF/WinForms) for a cybersecurity client to automate domain registration and GPO management
- Built an Excel-to-JSON automation pipeline with PostgreSQL storage to speed up semester result submission

PROJECTS

GMeet Clone (MERN + WebRTC Signaling)

- Built a Google Meet style app while learning WebRTC using React and a Node.js + Socket.IO signaling server for room join, SDP exchange, and ICE candidate handling

Retail Forecasting Research Apps

- Built Python and Streamlit apps for retail forecasting and analytics, including ARIMA demand forecasting, clustering, inventory optimization, and explainable ML with SHAP/LIME

EDUCATION

East West University

2022 – Present

Bachelor of Science in Computer Science and Engineering

Dhaka, Bangladesh

- **CGPA:** 3.60/4.0
- **Activities:** Participated in the GenDev Hackathon;
- **Online Certifications:** Mathematical Thinking in Computer Science (UC San Diego), Programming Fundamentals (Duke University), Google SEO (UC Davis)

RESEARCH

Towards a Protocol-Agnostic Universal Middleware for IoT with Edge Intelligence

- **Published as a Short Paper (Paper #157) at the 22nd IEEE International Conference on Distributed Computing in Smart Systems and the Internet of Things (IEEE DCOSS-IoT 2026)**
- Built a unified IoT gateway that supports MQTT, CoAP, HTTP, and QUIC on one port
- Implemented protocol selection using knowledge distillation and a LinUCB contextual bandit for edge environments
- Designed an 8-layer architecture covering protocol adaptation, device abstraction, routing, and event processing
- Implemented a protocol-agnostic message model with device registry and wildcard-based pub/sub routing

Emulating Sensor Profile Towards IoT Simulator Development

- **IEEE QPAIN 2026 (Paper ID: 4865):** Accepted with Minor Revision; eligible for IEEE Xplore and Scopus indexing
- Contributed to IoT simulator research on sensor-profile emulation for realistic system testing

SKILLS

Languages : C, C++, Python, JavaScript, TypeScript

Backend : Django, DRF, Node.js, Express.js, Go (Gin), Celery, Django Channels

Frontend : React, Next.js, Tailwind CSS, Radix UI, Fabric.js

Databases : PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps : AWS EC2, ALB, S3, VPS Deployment, Docker, Docker Compose, Nginx

Integrations & Tools : Stripe API, OpenAI GPT-4, Shippo, MinIO, FFmpeg

ACCOMPLISHMENTS

Competitive Programming : Solved 250+ problems on CodeForces and LeetCode

Publications : IEEE DCOSS-IoT 2026 (Accepted), IEEE QPAIN 2026 Paper ID 4865 (Accepted with Minor Revision)

Additional Projects : Route Recon (Dijkstra pathfinder game), Course Selling Platform (MERN stack), Inventory Management System (C# WPF), Chat Application (Socket Programming), CyberSurface Tech (tech blog and reviews)