

# MAHMUDUL HASSAN MITHUN

AI & SaaS Developer · BSc Data Science & AI, University of East London

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## PROFILE

AI-powered SaaS builder and 2nd-year BSc Data Science & AI student at the University of East London. I design, build, and ship production-grade AI applications and multi-tenant SaaS platforms — from agentic LLM pipelines and real-time booking systems to enterprise dashboards. Experienced in the full stack: FastAPI, Next.js 15, React, PostgreSQL, Prisma, LangChain, and cloud deployment on Railway, Vercel, and Render. Actively seeking summer 2026 internships in AI, data science, or software engineering.

## LIVE PROJECTS

### ContentForge AI [contentforge.net](https://contentforge.net)

FastAPI · React · LangChain · Stripe · Railway · Vercel · WebSocket · APScheduler

Flagship AI SaaS for content repurposing. 6-agent pipeline (Transcript, Writer, QA, BrandVault, DeepResearch, Competitor), 27-page deep research reports, Stripe billing, PDF/Word exports, YouTube processing via Webshare residential proxy, auto-publisher scheduler.

### CanopyCare — Online Booking System [canopycare.contentforge.net](https://canopycare.contentforge.net)

React · Vite · Tailwind · Node.js · Express · Prisma · PostgreSQL · Supabase · Cloudinary · JWT

Full-stack SaaS booking platform with 4-step booking wizard, live slot calendar, budget-to-package quote engine, admin panel (bookings, slots, packages, revenue reports), JWT role-based auth, Cloudinary photo uploads, and 24-hour cancellation enforcement.

### Enterprise Headless SaaS Platform [platform.contentforge.net](https://platform.contentforge.net)

Next.js 15 · Prisma · Auth0 · Stripe · Cloudflare R2 · Upstash Redis · Sentry · Railway

Enterprise platform with 4 vertical packages (Agency, Commerce, Enterprise, Franchise). Multi-tenant architecture, Stripe subscription billing, Cloudflare R2 storage, Upstash Redis rate limiting, Sentry error monitoring.

### Heart Disease ML Predictor [heartdiseasepredictorknn.streamlit.app](https://heartdiseasepredictorknn.streamlit.app)

Python · scikit-learn · KNN · Pandas · Matplotlib · Streamlit

ML pipeline for cardiovascular risk assessment using K-Nearest Neighbours, linear regression, and Bayesian classifier. Full EDA, feature engineering, cross-validation. Live Streamlit deployment.

### BookingForge AI (In Development)

LangGraph · FastAPI · Supabase · Twilio WhatsApp · Railway — Multi-tenant agentic booking SaaS for UK small businesses with WhatsApp integration.

## TECHNICAL SKILLS

AI / ML	LangChain · LangGraph · YOLOv8 · scikit-learn · PyTorch · Streamlit · Pandas · Numpy
Backend	Python · FastAPI · Node.js · Express · Prisma ORM · PostgreSQL · Supabase · JWT · REST APIs · WebSocket
Frontend	React 18 · Next.js 15 · TypeScript · Tailwind CSS · Vite · Framer Motion · Zustand
Cloud / DevOps	Railway · Vercel · Render · Cloudflare · Supabase · Cloudinary · Upstash Redis · Sentry · GitHub Actions
Data / Analytics	Power BI · DAX · Oracle SQL · PL/SQL · ETL · Data Modelling
Other	Java · Docker · Git · Agile · Stripe · Auth0 · SendGrid · Twilio · VMware · Linux

## EDUCATION

**BSc Data Science & Artificial Intelligence** | **University of East London** · 2023 – Present · London, UK

- Year 2 student — Modules: Machine Learning, Data Visualisation, Cloud Computing, Programming for Data Science

- Student ID: 2633850

**BEng Electrical & Electronic Engineering** | **KUET** · 2019 – 2022 · Bangladesh

- Final year project: YOLOv8 traffic management system achieving 94% mAP accuracy

## EXPERIENCE

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**Computer Lab Technician (WBL Placement)** | **University of East London** · 2024 – Present · London, UK

- CN5009 Work-Based Learning placement supervised by Chris
- Built virtualised IT infrastructure: Windows Server 2022 AD DS, Ubuntu LAMP server on VMware Workstation Pro 17
- Deployed Windows Server 2022 Domain Controller (WIN-DC01), Windows 10 client VM on project.local domain

## VIRTUAL EXPERIENCE PROGRAMMES

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**Software Engineering Virtual Experience** | **J.P. Morgan (Forage)** · July 2024 · Remote

- Set up local dev environment and fixed broken repository files
- Used JPMorgan's Perspective library to generate live data visualisation graphs for traders

**Advanced Software Engineering Virtual Experience** | **Walmart (Forage)** · October 2024 · Remote

- Developed a novel heap data structure in Java for Walmart's shipping department
- Designed UML class diagram for a data processor and ER diagram for Walmart's pet department database

## ACADEMIC PROJECTS

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**Power BI Enterprise Dashboards (CN5026)** | · 2025 ·

- Multi-page dashboards with DAX measures, conditional formatting, drill-through filters, KPI reporting

**Oracle SQL Fleet Management System (CN5000)** | · 2024 ·

- SuperRides RTFMS — complex triggers, stored procedures, multi-join queries, full relational schema

**British Airways Data Science Virtual Experience** | · 2024 ·

- Lounge capacity planning and booking prediction model — 69% ROC-AUC on booking prediction

## REFERENCES

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*Available upon request.*