

MD Humayun Kibria Shakib

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👤 [Portfolio](#)

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Education

University of Hertfordshire

Hatfield, England

Sep 2024 – Present

MSc in Artificial Intelligence and Robotics

Leading University

Sylhet, Bangladesh

Feb 2018 – July 2022

BSc in Computer Science and Engineering

Experience

Spark Sight Solution, London, England

Oct 2024 – Present

Machine Learning Engineer

- Led migration of enterprise-scale databases (10M+ records) from Alteryx to Databricks SQL.
- Designed data pipelines and optimization strategies to enhance query performance and processing efficiency.

LIILab, Sylhet, Bangladesh

Mar 2021 – Jan 2022

Software Engineer

- Engineered a high-performance product customization system using Django ORM and RESTful APIs, achieving a 25% increase in user engagement.
- Implemented responsive design, reducing bounce rate by 30% and increasing session duration by 45%.
- Optimized backend infrastructure with Django MVT, resulting in 40% faster deployment cycles.

Technical Skills

🔧 **Languages:** Python, C++, TypeScript, Java

📁 **Back-End:** Django REST, FastAPI

💻 **Front-End:** React, Next.js, Tailwind, Redux, Redux

Toolkit, Zustand

☁ **Cloud:** AWS, Azure

🗄 **Database:** MySQL, SQLite, Firebase, Supabase

🔧 **Tools:** Git, Jira, Unit Testing, ViTest

⚙ **Core Concepts:** Algorithms, Data Structures,

Machine Learning, Reinforcement Learning, OOP, System Design

Projects

LUXHAVEN(Backend) | Python, Django, Django REST

- Architected a scalable e-commerce backend handling 1000+ concurrent users.
- Implemented secure user authentication, product management, cart, and order processing.
- Optimized database queries with Django ORM, reducing response time.

ISSUE TRACKER | TypeScript, Next, Prisma, tailwind, NextAuth, React Query, Zod, Railway, Vercel

- Built a full-stack issue tracking app with Google authentication and markdown support.
- Implemented real-time updates using React Query, enhancing user experience and data consistency.
- Deployed on Vercel with a MySQL database on Railway, achieving 90% test coverage.

Problem Solving

Codeforces: SPECIALIST, Max Ratings: **1543**

Handle: **Bohemian**

CodeChef: 4*, Max Ratings: 1938, Handle: **hkshakib**

International Collegiate Programming Contest: ICPC ID Solved 3000+ problems across various online judges

Achievements

- Participated in ICPC Dhaka Regional 2021 (BUBT).
- Two-time Intra University Programming Champion (2018, 2020).
- Ranked top 6 in Bangladesh, LUZeroIQ, IEEE Extreme 14.

Leadership & Volunteering

Programming Trainer, LU ACM Community

2020 – 2022

- Conducted workshops on advanced problem-solving techniques, training 50+ students.
- Developed problem sets for local programming contests.

ACM Programming Lead, Leading University Programming Club

2019 – 2021

- Organized and managed 5+ university-wide contests with 200+ participants.
- Mentored 20+ junior programmers, improving their contest performance.