MD Humayun Kibria Shakib

⚲ Croydon, London, England 📞 +44-7867377935 ✉ hkshakib.cse@gmail.com
👤 Portfolio 🔗 hkshakib ⚙ hkshakib

I build fast, secure, and user-focused web apps with FastAPI, React, and Tailwind— currently shaping fintech tools at CopyAd AI. I'm passionate about creating scalable, smart experiences that make tech more useful and accessible for people everywhere.

Experience

CopyAD AI, London, England
May 2024 – Present
Software Engineer

- Developed and maintained a full-stack AIaaS fintech platform using FastAPI, React, TypeScript, and Tailwind CSS to deliver AI-powered ad solutions for businesses across global markets
- Built secure and scalable web features, including SSR, lazy loading, and protected routes to ensure optimal performance and user experience
- Integrated Stripe for subscription management and payments and Supabase for authentication, database, and role-based access control
- Applied secure coding practices and handled subscription logic with PCI-compliant Stripe integration, aligning with fintech standards
- Collaborated with a cross-functional team to deliver user-centered UI/UX using Framer Motion, glassmorphism design, and responsive layouts
- Led development of new AI tools and dashboards using FastAPI, OpenAI APIs, and PostgreSQL, improving user engagement by 40
- Optimized SEO, routing, and page load speed using React Router and metadata best practices

Spark Sight Solution, London, England
Oct 2024 – April 2025
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, TypeScript, C++
Frontend: React.js, Next.js (App Router), Tailwind CSS, Redux, Redux Toolkit, Framer Motion
Backend: FastAPI, Django REST, Node.js
API Integration: RESTful APIs, Stripe, OpenAI APIs, Supabase
Databases: PostgreSQL, MySQL, MongoDB, Supabase, Firebase, SQLite
Cloud & DevOps: Vercel, Render, GitHub, CI/CD (Automated Deployments)
Testing & Tools: Unit Testing, Jest
Core Concepts: Algorithms, DS, OOP, System Design, ML, Reinforcement Learning
Other: Server-Side Rendering (SSR), Incremental Static Regeneration (ISR), Responsive Design

Projects

CopyAd - AI-Powered Ad Copy Generation Platform | *React.js, FastAPI, OpenAI, Tailwind CSS, Stripe, Supabase, JavaScript (ES6+), React Query, Zustand* 🔗

- Designed and developed a full-stack AIaaS platform using FastAPI and React.js that helps businesses generate AI-powered ad copy across multiple channels
- Implemented modern UI/UX with Framer Motion animations, glassmorphism design, and responsive layouts, achieving 40% higher user engagement
- Architected scalable component system with 90% code reusability, lazy loading, and protected routes for optimal performance
- Integrated Supabase for authentication and database management, ensuring secure user data handling

LUXHAVEN(Backend) | *Python, 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.

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

Competitive Programming

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).
- Ranked top 6 in Bangladesh, LUZeroIQ, IEEE Extreme 14.