Md. Ehsan Khan

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About Me

Dedicated **Backend Developer** specializing in building robust, secure, and efficient backend systems using **Django, Express.js, and PostgreSQL**. Experienced in designing **RESTful APIs**, managing authentication with **JWT** and optimizing database queries for scalability and performance. Strong understanding of software architecture, clean code principles, and **CI/CD** pipelines using GitHub Actions. Passionate about automation, system design, and delivering reliable APIs that empower seamless frontend integration. Known for problem-solving, adaptability, and consistently meeting client goals with precision.

Skills

Languages & Frameworks: JavaScript (Node.js, Express.js), Python (Django), TypeScript, Java, C/C++
Database Management: SQL (PostgreSQL, MySQL, SQLite), NoSQL (MongoDB), ORM (Prisma, Django ORM), Query Optimization
API & Authentication: REST API Design, GraphQL, JWT Authentication, Middleware, Data Validation, Error Handling
System Design & Performance: Design Patterns, System Architecture, Caching Strategies (Cloudflare), Rendering Methods (SSR/ISR/CSR), CDN (Cloudflare, Cloudinary)
DevOps & Tools: CI/CD Pipelines, Git, GitHub, Docker, Linux, Bash, Agile (Scrum), Jira, Figma
Soft Skills: Analytical Thinking, Reliability, Documentation, Collaboration, Communication, Fast Learner

Experience

Full Stack Developer   *2022 – Present*
Self-Employed / Remote

- Handled more than 10 clients and 15 projects. Delivered production-ready web and desktop applications for agencies, businesses, and individual clients. Specialized in React, Next.js, Django, and Astro, with a focus on performance, maintainability, and end-to-end delivery. Known for high client satisfaction, excellent communication, and consistent on-time delivery.

Full Stack Developer (Contractual, Remote)   *Dhaka, Bangladesh*
BSIL   *Feb 2025 - Present*

- Developed and deployed BSIL's **main website**, **blog**, and **journal**, establishing a unified, high-performance digital presence.
- Originally built with **Astro** for static performance, later **rebuilt with Next.js and Payload CMS** to give the agency full dynamic control over site content and publishing workflows.
- Implemented **Incremental Static Regeneration (ISR)** for real-time content updates and integrated **Cloudflare caching** to ensure global low-latency performance.
- Configured **Cloudinary** as a **media CDN**, optimizing image delivery and reducing bandwidth usage significantly.
- Built a **custom CMS** with fine-grained access controls and intuitive editor interfaces for non-technical staff.
- Achieved **perfect Lighthouse scores**, faster load times, and improved SEO ranking through strategic rendering and caching.
- Improved page load speed **over 40%** and **perfect Lighthouse scores** with caching and CDN optimization.
- **Tech Stack:** Next.js, Payload CMS, React, TypeScript, TailwindCSS, PostgreSQL, Cloudinary, Cloudflare, JWT.

Full Stack Developer (Contractual, Remote)   *Dhaka, Bangladesh*
Cazzert   *Nov 2024 - Jan 2025*

- Designed and developed **feature-rich e-commerce platform** with product catalog, authentication, cart, order tracking, and custom CMS for warehouse managements.
- Designed secure REST APIs and database architecture optimized for scalability and performance.
- Delivered a modern, responsive, and high-performance user experience.
- **Tech Stack:** Astro, React, Next.js, Payload CMS, TypeScript, TailwindCSS, PostgreSQL, JWT.

Software Developer (Contractual, Remote)   *Dhaka, Bangladesh*
Swapnil Gold Testing   *Aug 2024 - Oct 2024*

- Built a **desktop application** for a gold testing business to generate and manage digital test certificates.
- Integrated **offline AI-based background removal**, and image editing features.
- Delivered a robust and easy-to-use tool praised for reliability and design.
- **Tech Stack:** Tauri, Rust, React, TypeScript, TailwindCSS, SQLite.

Web Developer (Contractual, Remote)   *Dhaka, Bangladesh*
Erasmus Scholar Portfolio   *April 2022 - May 2022*

- Designed and developed a **personal portfolio website** for an Erasmus Mundus Scholar to highlight research and academic achievements.
- Focused on elegant UI, accessibility, and responsive performance using modern frontend technologies.
- The client credited the website as a **key factor in securing their scholarship** by providing a professional digital presence.
- **Tech Stack:** React, Redux, TypeScript, TailwindCSS, Firebase.

Achievements

- **Champion (Team Lead), UIU Project Show Fall 2021:** Led a 4-person team to win 1st place among 30+ teams · *GITHUB* ⬈
- **Ranked 6th**, Coders Combat 3.0 (University Competitive Programming Contest).
- **Academic Excellence Scholarship** - Received a 100% waiver once, 50% twice, and 25% twice for academic excellence.

Projects

Resume AI   *GITHUB* ⬈

- An AI based CV screening application designed to simplify the recruitment process for HR professionals and enhance candidate experience. Users can build profile just by uploading CV and can apply for jobs. One of the unique features of this app is that the CV of the applicant gets formatted and summarized automatically to help the HR screening process. The second and most amazing feature is that automatic feedback is sent to the rejected applicant. This feedback get generated based on some selected applicants CV. This way the applicant knows why they are being rejected and where/how to improve.
- **Tools Used:** NextJS, Redux, TailwindCSS, TypeScript, Django, JWT, PostgreSQL, REST API

Course Assistant   *GITHUB* ⬈

- An allrounder helper for undergraduate students that solves real-life problems. It helps to track academic progress, share content, and group study, etc. It has 3 main features,
    - Sharing contents like previous questions, class notes, guides etc. inside own university and department.
    - Track academic progress and get predictions on how the results are going to be with visual graphs.
    - The last but not least and the most important feature is the study group. An automatic group being created for courses for different sections each trimester and add relevant students automatically. Student can leave the group or turn off the auto add system. Relevant students are selected based on the academic progress data.
- **Tools Used:** HTML, TailwindCSS, JavaScript, Django, JWT, PostgreSQL

Please visit my *Portfolio* ⬈ to see more of my work.

Education

United International University   *Jan 2020 – Oct 2025*
B.Sc in Computer Science and Engineering   CGPA: 3.35