Md. Ehsan Khan

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About Me

Product-driven **Full Stack Developer** with a proven track record of architecting and deploying scalable, end-to-end web applications. Expertly combines **high-performance** frontend development in **React** and **Next.js** with robust backend services using **Django, Express** and **PostgreSQL**. Specializes in full-stack optimization, having achieved **perfect Lighthouse scores** and improved **page load speeds by over 60%** through strategic implementation of **ISR** and advanced **caching**. Successfully **delivered 15+ complex client projects**, ranging from feature-rich e-commerce platforms with custom CMS solutions to innovative **AI-powered applications**. A collaborative problem-solver dedicated to translating complex business requirements into reliable, high-quality technical solutions.

Skills

Frontend: React, Next.js, Astro, TypeScript, TailwindCSS, Redux, GSAP, Responsive UI, Accessibility
Backend: Express.js, Django, REST API, GraphQL, Redis, SQL (PostgreSQL, MySQL, SQLite), NoSQL (MongoDB), ORM (Prisma, Drizzle), Query Optimization
Full Stack & Integration: Payload CMS, Cloudinary, Cloudflare Caching, Rendering Methods (SSR/ISR/CSR), Server Actions
DevOps & Tools: Vitest, Jest, Unit/API/Integration Testing, CI/CD, Git, GitHub, Docker, Linux, Bash, Agile (Scrum), Jira, Figma
Additional Skills: Clean Code, TDD Principles, Problem Solving, Fast Learning, Communication, Collaboration, Code Optimization

Experience

Assistant Software Engineer (Permanent, On Site)   *Dhaka, Bangladesh*
ECB Technologies   *Nov 2025 - Present*

- Building an **MIS** system to streamline internal processes and enhance operational efficiency.
- Built scalable backend modules, including a **Notification System** for automated SMS and Email alerts.
- Rebuilt company website using **Next.js**, achieving high **SEO/Performance** scores with **responsive UI/UX**, **GSAP animations**, and optimized caching.
- **LIVE UI/UX Demo:** https://ecb-site.vercel.app

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

- Developed and deployed BSIL's **main website**, **blog**, and **journal**, establishing a unified, high-performance digital presence.
- **Rebuilt** BSIL's agency website from Astro to **Next.js + Payload CMS**, enabling full dynamic content management.
- Implemented **Incremental Static Regeneration (ISR)** and **Cloudflare caching**, reducing load times by **60%+** globally.
- Integrated **Cloudinary** for media optimization, cutting bandwidth usage and improving SEO performance.
- Configured **Cloudinary** as a **media CDN**, optimizing image delivery and reducing bandwidth usage significantly.
- Achieved **perfect Lighthouse scores** across performance, accessibility, and SEO.
- Developed **integration tests** and **load tests** for PostgreSQL-backed services.
- **LIVE:** https://bdsil.org

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

- Designed and built a **scalable e-commerce platform** featuring product catalog, authentication, cart, and order management.
- Developed **RESTful APIs** and **database schema optimized** for performance and security.
- Implemented a **custom CMS** for warehouse management and **role-based access control**, streamlining product operations.
- Delivered **responsive, high-performance UI** with **Astro, TypeScript**, and **TailwindCSS**.
- Implemented **automated test suites** for backend APIs, improving reliability and catching regressions before deployment.
- **LIVE:** https://cazzert.com

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

- Built an **offline desktop app** using **Tauri + React** for generating and managing digital gold test certificates.
- Integrated **AI-based background removal** and **image editing tools**, improving user workflow efficiency.
- Delivered a **reliable, easy-to-use interface** praised by the client for design and performance.

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

InsightDesk   *GITHUB* ↗

- Architected a **multi-tenant B2B support platform** featuring strict data isolation, SLA monitoring, and real-time collaboration tools with a custom, **high-performance backend**.
- Engineered a **PostgreSQL Row-Level Security (RLS)** architecture with Drizzle ORM and UUIDv7, ensuring database-layer tenant isolation verified by **800+ automated tests**.
- Built a **scalable real-time event system** using Socket.IO with a **Valkey adapter**, enabling distributed state management for user presence, typing indicators, and live ticket updates.
- Developed a **privileged control plane** for background jobs (SLA breach detection, data cleanup) capable of safely bypassing RLS policies for cross-tenant batch processing.
- Established a production-grade TypeScript/Express 5 ecosystem with Zod for **end-to-end type safety**, structured logging via Pino, and auto-generated **OpenAPI documentation**.
- **Tech Stack:** TypeScript, Express 5, PostgreSQL (RLS), Valkey, Docker, Socket.IO, Drizzle ORM, Vitest, Swagger.

Resume AI   *GITHUB* ↗

- Developed an **AI-powered CV screening and feedback system** to streamline recruitment workflows.
- Automatically formats, summarizes, and evaluates resumes using **Next.js, Django**, and **Gemini API**.
- Generates **personalized feedback** for rejected candidates based on successful applicant profiles.
- **Tools Used:** Next.js, Redux, TailwindCSS, TypeScript, Django, PostgreSQL, JWT, REST API

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

References

- **References available upon request.**