Md. Ehsan Khan

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About Me

Passionate **Software Engineer** with strong proficiency in **Java**, experienced in using **JDBC** for database connectivity, **JUnit** for testing, and applying solid **Object-Oriented Programming (OOP)** principles. Aspiring Java Backend Developer with strong fundamentals in OOP, JDBC, and JUnit, complemented by 3 years of experience building **reliable**, **maintainable**, and **production-grade** applications using modern web technologies. Skilled in **REST API design**, **CI/CD pipelines**, and managing **relational databases (PostgreSQL, MySQL)**. I enjoy solving **complex problems, optimizing performance,** and contributing to **scalable, high-quality** software within **collaborative team environments**.

Skills

Java & Core CS: Java (OOP, Concurrency, JDBC), Data Structures & Algorithms, Design Patterns, JUnit, Maven, JavaFX.
Databases & APIs: SQL (PostgreSQL, MySQL), NoSQL (MongoDB), REST API, GraphQL, Query Optimization, JWT Authentication.
Pro. Exp. with Other Tech: Python, Next.js, Astro, Django, Node.js, Express.js, JavaScript, TypeScript.
DevOps & Tools: CI/CD Pipelines, Cloudflare Caching, Git, GitHub, Docker, Linux, Bash, Agile (Scrum), Jira, Figma.
Additional Skills: Problem Solving, Fast Learning, Client Communication, Collaboration, Code Optimization.

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.

Software Engineer (Contractual, Remote)   *Dhaka, Bangladesh*
BSIL   *Feb 2025 - Present*

- Engineered a complete system overhaul for a client's web platform, focusing on performance engineering and backend integration, which resulted in a **60% improvement in page load speeds**.
- **Designed and implemented the content management architecture**, enabling non-technical users to manage dynamic content across the application seamlessly.
- Implemented robust caching strategies and optimized asset delivery through a CDN, **significantly enhancing application responsiveness** and user experience.
- Established a **CI/CD pipeline** to automate testing and deployment, reducing manual errors and **improving development velocity**.

Software Engineer (Contractual, Remote)   *Dhaka, Bangladesh*
Cazzert   *Nov 2024 - Jan 2025*

- Architected and delivered a cross-platform desktop application, **managing the full software development lifecycle** from initial client requirements gathering to final deployment.
- **Designed and implemented the database schema** and relational data models to support the application's core features.
- **Developed a secure authentication system** to manage user access and protect sensitive data.

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

Pawsitive - Pet Adoption Platform   *GITHUB* ↗

- A pet adoption platform featuring an admin dashboard, pet listings, search, favorites, authentication, and messaging. Includes automated email notifications for adoption requests.
- Architected a desktop application using **Object-Oriented Design principles** to ensure a scalable and maintainable codebase with a clear separation between the UI (JavaFX) and business logic.
- Implemented **multi-threading for background tasks**, such as sending automated email notifications, to ensure the user interface remained responsive and performant at all times.
- **Tools Used:** Java, JavaFX, JDBC, MySQL, Maven

Duplicate Line Finder   *GITHUB* ↗

- A high-performance utility tool to analyze and process text files for duplicate entries with a clean, intuitive UI. Gives ability to manipulate entries in many ways.
- Implemented an efficient algorithm using a **HashMap data structure for O(n) time complexity**, allowing for the rapid processing of large files.
- Screenshots and runnable jar available in the *GITHUB Release* ↗.
- **Tools Used:** Java, JavaFX, Maven

Super Shop Management App   *GITHUB* ↗

- Developed a comprehensive management system featuring **role-based access control** to provide distinct interfaces and permissions for administrators and standard users.
- Designed and implemented the relational data models for key business functions, including **inventory management, sales tracking, and user profiles**.
- Utilized Java's **concurrency** features to handle long-running operations, such as generating sales reports, without blocking the main application thread.
- **Tools Used:** Java, JavaFX, Maven

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.**