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* ⬈
- An AI based CV screening platform built to make recruitment smoother for HR professionals while improving the overall candidate experience. Candidates can easily create their profiles by uploading their CVs and apply for jobs in a few clicks. The system automatically organizes and summarizes each CV to help HR teams review applications more efficiently. What sets it apart is its thoughtful feedback system, rejected candidates receive personalized feedback based on successful applicants' profiles, helping them understand why they weren't selected and how they can improve for future opportunities.
- **Tools Used:** NextJS, Redux, TailwindCSS, TypeScript, Django, JWT, PostgreSQL, 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.**