

Fazlul Karim Choudhury

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Professional Summary

Software Engineer with professional experience at ADP and a B.Tech in computer science, building scalable, production-grade web applications and AI-enabled systems using React, Next.js, Node.js, PostgreSQL, MongoDB, and machine learning frameworks. Strong collaborator with hands-on experience in Agile/Scrum (Jira), requirements gathering, client communication, documentation, code reviews, unit testing, and TDD. Passionate about clean architecture, handling technical debt, performance optimization, and database query optimization for scalability and reliability.

Work Experience

Automatic Data Processing (ADP) - Member Technical | Oct 2023 - Sept 2024

- Built an employee onboarding system with **React** and **Spring Boot**, enabling HR, managers, and new hires to access role-specific features via **JWT**-based authentication.
- Designed responsive, cross-platform, user-friendly dashboard interfaces using **React**, **Bootstrap**, and custom **CSS**, supporting core features like offer letter generation, email template automation, and document tracking.
- Implemented secure **RESTful APIs** with Spring Data **JPA** and implemented role-based access control via Spring Security, ensuring appropriate data access and smooth workflow management across user types.
- Collaborated in an **Agile** team environment to deliver new features end-to-end, improving onboarding efficiency and supporting 5,000+ employees with streamlined HR operations and reduced manual effort.

Projects

PaperSight AI | Jan 2025 - Present | Papersight.vercel.app

- Developed an AI-powered document summarization platform using **Next.js**, **React**, and **GPT-4**, integrating server-side rendering and secure **Clerk** authentication to process documents with 98% accuracy.
- Created a responsive, accessible UI with **ShadCN** UI and **TailwindCSS**, featuring interactive summary viewers, real-time toast notifications, and user dashboards that boosted engagement by 25%.
- Configured robust backend using **TypeScript**, **Langchain**, and **NeonDB (PostgreSQL)** for PDF parsing and processing.

Brutalkart (E-Commerce) | May 2025 - Present | Brutalkart.app

- Built a production-ready e-commerce platform using **Next.js16 (App Router)**, **React 19**, and **TypeScript**, enabling product listings, smart search, real-time cart state with persistence, checkout flow, and order lifecycle management.
- Designed a responsive and accessible UI with a bold **Neo-Brutalist** design system using **Tailwind CSS**, applying semantic HTML and modern frontend patterns for scalability and maintainability.
- Achieved **99 Performance**, **96 Accessibility**, **91 Best Practices**, and **99 SEO Lighthouse scores**, with **0.2s FCP**, **0.8s LCP**, **10ms TBT**, and **0.034 CLS**, by optimizing **asset loading**, **routing**, and **layout stability**.

QuickPaay (Online payment system) | Dec 2024 | Quickpaay.vercel.app

- Built a payment gateway with **Next.js16**, **TypeScript**, Prisma, and **PostgreSQL**, implementing dual-auth flows, **RESTful** payment APIs with **idempotency** support, and real-time **webhook** processing.
- Developed **P2P** transfers, **wallet management**, and refund workflows using atomic **database transactions** and state-machine-based payment status handling.
- Architected a Turborepo **monorepo** with shared packages (DB, UI, state management), streamlining development across User and Merchant dashboards with a unified codebase structure.

Technical Skills

- Language:** Python, JavaScript (ES6+), TypeScript, C/C++, Java
- Frontend:** React.js, Next.js, HTML5, CSS3, Redux, Tailwind CSS, Jest, React Testing Library
- Backend:** Node.js, Express.js, Spring-Boot, Nest.js, JWT/OAuth
- Architecture & Design:** Microservices, RESTful APIs, MVC Patterns, Object-Oriented Programming
- Databases:** SQL, NoSQL, PostgreSQL, MongoDB
- DevOps/Tools:** Git, AWS, GitHub Actions, Docker, CI/CD pipelines, Jenkins, Linux/Unix
- Familiar With:** GraphQL, Redis, Zustand, React Native, Fastapi, WebSocket, Tanstack Query, SEO, Figma

Education

- Bachelor of Technology in Computer Science | July 2019 - June 2023**
North-Eastern Hill University (**NEHU**)