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, NextJS, NodeJS, 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

LlmForge | Jan 2026 - Present | LlmForge.vercel.app

- Built a full-stack LLM benchmarking platform using **FastAPI**, NextJS 16, **PostgreSQL**, and **Qdrant (VectorDB)**, enabling systematic comparison of **Naive, CoT, RAG,** and **ReAct** strategies across 7 curated QA datasets
- Engineered a multi-engine inference layer supporting **HuggingFace** and OpenAI-compatible endpoints **(Ollama, vLLM)** with async-safe execution eliminating event-loop blocking and maintaining **sub-100 ms API** overhead, plus **LRU prompt caching (up to 10× speedup)** and **batched parallelism** to reduce redundant calls and improve **2-3x Throughput**.
- Designed a research-grade metrics dashboard computing accuracy, **Token-F1**, **latency (p50/p95)**, and **Faithfulness**, with side-by-side experiment comparison and CI/CD deployment on Hugging Face Spaces and Vercel.

PaperSight_AI | Jan 2025 - Present | Papersight.vercel.app

- Developed an AI-powered document summarization platform using **NextJS**, **React**, and **GPT-4**, integrating server-side rendering and Clerk authentication to process documents with 98% accuracy.
- Configured a scalable backend using **TypeScrip**t, **Langchain**, and **NeonDB (PostgreSQL)** for PDF parsing, with a responsive TailwindCSS UI featuring interactive summary viewers and toast notifications that boosted engagement.

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

- Built an e-commerce platform using **NextJS** 16 (App Router), **React** 19, and **TypeScript**, enabling product listings, smart search, real-time cart state persistence, checkout flow, and full order lifecycle management
- Achieved **99 Performance**, **96 Accessibility**, and **99 SEO Lighthouse** scores with **0.2s FCP** and **0.034 CLS** by optimizing asset loading, routing, and layout stability with a Neo-Brutalist Tailwind CSS design system.

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

- Built a full-stack payment gateway using **Next.js 16**, **TypeScript**, Prisma, and **PostgreSQL**, implementing dual-auth flows, **idempotent REST APIs**, and real-time **webhooks**; enabled P2P transfers, wallet management, and refunds using atomic transactions and state-machine-based payment handling in a monorepo enabling shared packages.

Technical Skills

- **Languages:** Python, JavaScript (ES6+), TypeScript, Java, C/C++
- **Frontend**: ReactJS, NextJS, HTML**5**, CSS**3**, Redux, Tailwind CSS, Jest, React Testing Library
- **Backend:** NodeJS, ExpressJS, Spring Boot, NestJS, FastAPI, JWT/OAuth
- **Architecture & Design:** Microservices, RESTful APIs, MVC Patterns, Object-Oriented Programming
- **Databases:** SQL, NoSQL, PostgreSQL, MongoDB
- **DevOps/Tools:** Git, AWS, GitHub, Docker, CI/CD pipelines, Jenkins, Linux/Unix
- **AI & LLM:** RAG, Prompt Engineering, LangChain, HuggingFace, OpenAI APIs, Vector Databases, LLM Evaluation
- **Familiar With:** GraphQL, Redis, Zustand, React Native, Tanstack Query, SEO, and Figma.

Education

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