

TAHA IFTIKHAR

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Profile Summary

Computer Science student with a strong interest in **MERN full-stack development** and **problem-solving**, with a primary focus on **backend engineering**. Skilled in **Java, JavaScript, Node.js, Express.js, React**, and **MongoDB**, with hands-on experience building **end-to-end web applications, REST APIs, authentication systems**, and **database-driven features**. Consistent with DSA practice to strengthen **algorithmic thinking**. Experienced in **team-based projects** and **event coordination**, seeking opportunities to contribute to real-world **full-stack** applications while owning backend-heavy responsibilities.

Technical Skills

Programming: JavaScript, Java, C
Backend Development: NodeJS, ExpressJS, HonoJS, Cloudflare Workers
Frontend Development: ReactJS, Tailwind CSS, Context API
Database & Tools: MongoDB, PostgreSQL, Prisma, Docker, Redis, Git, Postman

Projects

Streaker - Habit Tracking Application (Full Stack Application) Feb-Dec 2025

- [Github](#) [Live Link](#) **Tech Stack:** React.js, Hono.js, PostgreSQL, Prisma ORM, Tailwind CSS, Zod
- Built full-stack habit tracker with **daily streak building, GitHub-style heatmap visualization**, and category-based activity filtering.
- Designed **RESTful API** with 25+ endpoints on **Cloudflare Workers** for edge computing, integrated **Prisma Accelerate** for optimized queries, implemented goal management with achievement badges.
- Secured auth with **JWT** and **bcrypt** hashing, implemented **Zod validation** through shared npm package, built activity CRUD with pagination using React Query.

TinyQueue - Redis-Backed Job Queue November 2025

- [Github](#) **Tech Stack:** TypeScript, Express.js, Redis, Bun
- Developed Redis-backed job queue with **FIFO processing**, concurrent worker pools, and automatic retry mechanism with **exponential backoff**
- Designed Redis data structures to manage job state transitions from pending to processing to completed or failed for **real-time monitoring**
- Created extensible job registration system with **type-safe handler mapping** to simplify addition of new background job types

PayPulse - Digital Payment Platform (Team Project, Backend Developer) June-Aug 2024

- [Github repo](#) [Live Link](#) **Tech Stack:** Node.js, Express.js, MongoDB, JWT, Zod, Bcrypt
- Architected and developed RESTful APIs for a payment application enabling secure money transfers with **ACID-compliant database transactions** using MongoDB sessions to ensure data integrity and prevent race conditions.
- Implemented **JWT-based authentication system** with access/refresh token mechanism, secure password hashing using bcrypt, and cookie-based session management with CORS configuration for cross-origin requests.
- Built robust input validation layer using **Zod schema validation**, designed normalized database schema with 3 collections (Users, Accounts, Transactions), and created transaction history API with user detail population.

Blog API - Backend Service Nov 2023

- [Github Repo](#) [Live API](#) **Tech Stack:** Hono, Cloudflare Workers, PostgreSQL, Prisma ORM
- Created a dynamic blog platform allowing users to **create and modify** blog posts using **Cloudflare Workers** for efficient backend operations.
- Utilized **Prisma ORM** with **connection pooling** and implemented **input validation** using **Zod** library with **JWT** authentication.

Education

B.Tech in Computer Science & Engineering Sep 2022 - June 2026

Integral University Lucknow, UP

CGPA: 9.6/10

- **Releted CourseWork** - Data Structure & ALgorithms, Database Management System (DBMS), OOPS, Computer Networks, Operating System

Accomplishments & Extracurricular

- **LeetCode Achievements:** Ranked 1421/28725 in contest 397, 1574/24931 in contest 381, 1676/32166 in contest 399
- Selected as **Campus Ambassador** of HackerEarth at Integral University and **Head of Code Club** at Integral University