Chisom Udonsi

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SKILLS

- **Backend Development:** Node, Express, TS
- **Database:** MongoDB
- **Schema Validation:** Zod
- **Templating:** Pug, Cheerio
- **Cloud Storage:** AWS
- **Version Control:** Git, GitHub
- **Authentication:** JWT
- **Data Fetching:** Axios
- **Web Scraping:** Puppeteer
- **Logging:** Morgan
- **File Uploads:** Multer
- **Testing:** Jest, Vitest, Cypress
- **Version Control:** Git, GitHub
- **Project Management**: Jira, Slack
- **Emails:** Resend, Seamailer, SendGrid, MailChimp
- **BaaS:** Appwrite, Supabase, Firebase

PROFESSIONAL EXPERIENCE

Freelancer, Backend Engineer, January 2025 – Present **Nigeria, Remote**

- Designed and developed scalable backend systems, ensuring high performance and reliability for various client projects.
- Built and optimized RESTful APIs, facilitating seamless data exchange between frontend applications and databases.
- Implemented authentication and authorization mechanisms, enhancing security for user data and application access.
- Optimized database queries and schema design, improving efficiency and reducing query execution time.
- Integrated third-party services, including payment gateways, cloud storage, and messaging platforms, to enhance application functionality.
- Developed automated background jobs and task scheduling to improve system performance and resource management.
- Ensured backend applications adhered to best practices in logging, error handling, and monitoring for effective debugging and maintenance.
- Collaborated with frontend engineers to deliver well-documented APIs, enabling smooth integration with user interfaces.
- Maintained version control and streamlined deployments using Git and CI/CD pipelines.

EDUCATION

Federal University of Technology Owerri **Imo, Nigeria**

Bachelor of Technology in Computer Science

PROJECTS

- **SRS:** Designed and implemented a robust fullstack system (SRS) for a local company, powering two distinct platforms — SRS AI and SRS Cafe. Developed the frontends using Next.js, Vite + React, TypeScript, Zustand, TailwindCSS, Shadcn, TanStack Query, and Axios, ensuring a responsive, theme-aware UI with dark, light, and custom color modes stored in local storage. Architected a scalable backend with Node.js, Express, MongoDB, and TypeScript, exposing a unified API serving both platforms and automating critical business processes such as locale management, task type certification workflows, user role upgrades, account assignment tracking, time logging, and subscription billing. Implemented cron jobs to automate scheduled tasks, reducing manual intervention and improving operational efficiency. Built dynamic dashboards for multiple user roles with advanced filtering, date-based reporting, and CRUD functionality for users, locales, accounts, subscriptions, and pricing models. Streamlined payment tracking by integrating status updates and real-time pay calculation logic, significantly reducing manual overhead for the company's operations. Link to project 1 Link to project 2

- **ShoutMe:** Developed an emergency alert system using Node.js, Express, and TypeScript, allowing users to create and broadcast security alerts regarding ongoing incidents such as robberies or other emergencies. Designed a

MongoDB-backed database to efficiently store and retrieve alerts while ensuring fast query performance. Implemented a notification system for all platform users, enabling quick dissemination of critical information. Built a RESTful API for managing user alerts and authentication. Integrated role-based access control to prevent unauthorized alert manipulations. Link to project

- **Intellecta:** Developed a scalable AI-powered learning assistant backend, enabling students to receive personalized study recommendations and real-time academic support. Designed and implemented a database architecture for storing user progress, learning preferences, and AI-generated insights. Built RESTful APIs for managing user authentication, course recommendations, and progress tracking. Integrated AI-driven content analysis to tailor study materials based on individual learning patterns. Implemented real-time data synchronization to ensure seamless interaction between students and the AI assistant. Optimized backend performance to handle high-concurrency requests, ensuring a smooth and responsive learning experience. Link to project
- **AniFetch:** Developed a high-performance web scraper for AniFetch using Node.js, Express, TypeScript, and Puppeteer, automating the process of fetching and downloading anime episodes in the selected resolution. Implemented headless browser automation to efficiently navigate anime streaming websites, extract episode links, and bypass anti-bot mechanisms. Designed a robust API to handle user requests, initiate scraping tasks, and manage download queues. Optimized asynchronous operations to ensure efficient handling of multiple concurrent requests. Implemented error handling and retry logic to maintain scraping reliability even against dynamic site structures and restrictions. Link to project