Courage Nduka

Full Stack Developer

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Skills

Languages & Markup
HTML5, CSS3,JavaScript (Node.js), TypeScript, Python, SQL

Styling & UI
Tailwind CSS, Bootstrap, Material UI

API Integration
RESTful APIs, GraphQL

Database
PostgreSQL, MySQL, MongoDB, Redis

Frameworks/Libraries
Express.js, NestJS, React.js,

State Management
React Context API, Redux

Tools & Workflow
Git, GitHub, VS Code, Figma

ORMs
Prisma

Professional Experience

Full stack Developer, *Mecnix*   04/2024 – present

- Designed and developed **RESTful APIs** using **Node.js** and **Express**, integrating with the frontend to enable seamless communication and real-time data updates.
- Utilized **React.js**, **Tailwind CSS**, and **TypeScript** to build a user-friendly and responsive frontend, ensuring optimal performance and a smooth user experience.
- Optimized database queries and caching mechanisms with **PostgreSQL** and **Redis**, reducing server response time by **40%** and improving overall platform performance.
- Implemented **secure authentication** and **role-based access control** to ensure data integrity and protection of sensitive user information.
- Collaborated with UI/UX designers to convert **Figma designs** into fully functional and visually appealing frontend components.
- Reduced server load and hosting costs by **25%** through **API optimization**, **background job handling**, and implementing efficient state management techniques.
- Improved platform scalability and maintainability by refactoring both frontend and backend code, enhancing code reusability and optimizing service layers.

Genesys Tech Hub   11/2023 – 04/2024

Led the backend development of a responsive school management system that tracks student performance and delivers AI-generated feedback to teachers and parents.

- Architected scalable REST APIs using Node.js and Express, enabling real-time data updates across student records and performance metrics.
- Integrated AI-driven analysis modules, increasing parental involvement by 35% and improving teacher engagement by 45%.

- Reduced backend-related issues by 60% through rigorous testing and structured code reviews.
- Optimized database operations and caching strategies, cutting infrastructure costs by 25% and improving data retrieval speed by 28%.

Education

Enugu State University of Science and Technology   07/2017 – 08/2022

Projects

Datum ⧉
A comprehensive school management platform that tracks student performance and provides AI-driven feedback for teachers and parents. I led the frontend development using React.js and Tailwind CSS, creating interactive dashboards and enhancing user engagement with real-time insights, improving teacher-parent communication by 35%

Expense Tracker ⧉
This backend system for an expense tracking app uses a monolithic architecture and MongoDB for flexibility and scalability. The database schema follows the first three normalization rules (1NF to 3NF) to ensure data consistency, reduce redundancy, and maintain a structured design.