

Joshua Irabor
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Technical Skills

Programming Languages: JavaScript, C, SQL, HTML, CSS, Python, C++.

Frameworks & Libraires: React, Git, Docker, Node.js, Express.js.

Developer Tools: Visual Studio Code, GitHub, Visual Studio Community.

Databases: MongoDB, MySQL, Redis.

Technical Experience

Research Intern | Rites Solutions

09/2023 – 05/2024

- Conducted an extensive study of LLM structures with attention to their rigid functionalities to understand LLMs for future artificial intelligence system development.
- Contributed to the team to help design and build a user interface to enable smooth LLM-based system interaction and improve user convenience.
- Implemented Lang Chain framework into operations to improve natural language processing capabilities for high-stakes NLP tasks through enhanced data processing and feature extraction.
- Deployed LLM-based programs for Windows and Linux operating systems through Docker solutions which provided platform flexibility and better management of application deployment.
- Created a Pugh Matrix tool to evaluate how different LLMs worked with multiple systems to drive data supported identification of their best model matchup.

Personal Projects

AI-Powered Resume Screener / ATS System | *Express.js, React.js, Node.js, OpenAI API, Cloudinary (MERN Stack + AI Integration)*

- Designed and developed a full-stack ATS tool to analyze resumes, match them to job descriptions, and suggest improvements using OpenAI's GPT models.
- Integrated Redis for caching responses and to increase API response speed by 50% in case of repeated API calls.
- Developed a React.js UI that allows users to upload resumes and input job descriptions for tailored resume analysis.
- Created backend modules with Express.js to handle file uploads via Multer and store files in Cloudinary, ensuring scalable and organized resume management.
- Integrated OpenAI's GPT-3.5 API to evaluate resumes, generate match scores, and offer improvement suggestions based on job requirements.
- Improved efficiency of resume screening process by ~70% and increased simulated match-to-interview rate by 65% through automated insights.

Ecommerce site | *MongoDB, Express.js, React.js, Node.js Visual Studio Code (MERN Stack)*

- Developed a complete e-commerce platform where users could explore merchandise through the website and proceed with checkout until completion.
- implemented product listing features and shopping cart functionality w with React.js to give users improved interaction.
- Built an Express.js and Node.js RESTful API which provides authentication functions together with product management and order processing capabilities.
- Integrated MongoDB to store data including products, user accounts and order information, product details and historical purchasing records.
- Ensured a secure payment processing authentication with JWT and bcrypt for password hashing.

Education

University of Massachusetts Dartmouth

Relevant Coursework: OOD in Java, Introduction to Procedural coding in C, Computer Architecture, Design Operation systems, Discrete Mathematics, Models of computation, Data structures and Algorithms