Ismael Soumahoro

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EDUCATION

Mercy University, Dobbs Ferry, NY   *December 2024*
Bachelor of Science in Computer Science

- GPA: 3.28
- Relevant Coursework:
  - Calculus I & II, Foundations of Computing I & II, Discrete Structures, Data Structures, Principles of Software Engineering I & II, Analysis of Algorithms, Computer Architecture, Computer Network II, Database Management Systems [with SQL], Senior Capstone Project, Artificial Intelligence

TECHNICAL SKILLS

- Programming Languages: Java (Spring Boot/Spring Framework), SQL, JavaScript, TypeScript, HTML, CSS
- Operating Systems: Linux (Ubuntu, Kali Linux), Windows, MacOS
- Software: MySQL, DBSM, React, Node.js, EJS, Bootstrap, jQuery
- Data Structures & Algorithms

EXPERIENCE

New York Edge

Extended Day Activity Instructor-STEM specialist (Part time)   *March 2024-Present*

- Develop and deliver engaging computer science lessons to grade school children, covering topics like programming concepts (conditional statements, loops, DRY) and cybersecurity (antivirus, malware, social engineering).

PROJECTS

Visa Recommendation App - Full-Stack Mobile Application

Backend Developer (School Project)   *January 2024-May 2024*

- Developed and implemented a robust Spring Boot API backend to power a comprehensive visa recommendation system.
- Engineered scalable RESTful services to handle visa application data and provide personalized recommendations based on user profiles and eligibility criteria.
- Utilized Spring Data JPA for efficient database interactions, ensuring seamless integration and data consistency across the application.
- Gained hands-on experience with MySQL for database creation and management, optimizing schema design and query performance.
- Managed a MySQL database with an initial dataset of 11 visa types, architected for future scalability to accommodate additional visa categories and increased user data.

Product Lookup Site - Full-Stack Web Application

Backend Developer (School Project)   *November 2023-December 2023*

- Led the software engineering of a product lookup system for a school project (Backend Developer).
- Implemented a system displaying product details like department, SKU, pricing, order statistics, etc.
- Utilized EJS (front-end), Node.js (back-end), CSS, and MongoDB for development.
- Integrated data by storing it in a NoSQL database (MongoDB), rendering data with EJS, and creating functional forms for updating server data.
- Developed a prototyped system with a total of 23 model products, with two related collections collecting sales and delivery information alongside 5 model users.
- Delivered an intuitive user experience with a simple server-side routing system.

WeatherApp - Full-Stack Web Application

Full Stack Developer (Solo Project)   *March 2023-September 2023*

- Built independently a full-stack weather web application displaying real-time forecasts and conditions for user-specified locations.
- Leveraged React with TypeScript (front-end) and Node.js (back-end) for development.
- Integrated a JSON API from a third-party weather service for real-time data.
- Owned the entire application's design and implementation, including the user interface and back-end functionality.
- Created a Node.js server for API requests and front-end serving.
- Ensured accurate and user-friendly weather information by implementing error handling and data parsing.

OTHER SKILLS

Language: Proficient in Arabic and Dioula (Mandingo)