Robert Smith

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Personal Profile

As a Computer Science graduate, I've consistently prioritized my studies, demonstrating commitment through the completion of coursework and projects. Fueled by a genuine passion for technology, I actively pursue ongoing learning to stay up to date with emerging trends. Proficient in various programming languages, I am committed to expanding my skills to align with industry demands. Now, I eagerly anticipate the opportunity to apply my knowledge in real-world settings, contributing effectively within a professional environment and collaborating with others.

Skills

Languages: Java, JavaScript, CSS, HTML, Python, SQL.
Frameworks / Libraries: React.js, Node.js, Express.js, TensorFlow, Scikit-learn, Pandas, NumPy, Chart.js
Tools: Git, Docker, SQLite, MongoDB, Axios, Postman, JWT, bcrypt.js, Microsoft 365, Figma.
Methodologies: RESTful API design, Agile, Scrum.

Education

BCT Computer Science, University of Galway Sep 2020 – May 2024
Achieved Grade: 2.1 Second Class Hons, First Division.
Related Coursework: Software Engineering, Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Computer Security and Forensic Computing.

Work Experience

Medtronic Galway, Ireland
Smart Digital Factory Student Intern Jan 2023 – Sep 2023

- Developed and refined AR-based training programs to elevate the proficiency and productivity of manufacturing teams.
- Worked closely with engineering departments to utilize AR-powered digital design tools, streamlining the creation and adaptation of manufacturing layouts. This led to cost savings on materials and improved efficiency in the design phase.
- Shadowed the maintenance and operation of a substantial Thin Client system, providing real-time access to manufacturing data for operators. Ensured the system's reliability and accessibility, thereby optimizing production floor processes.

Cloncat Service Station Meath, Ireland
Sales Assistant Oct 2018 – Sep 2020

- Operated register to process payments via cheque, cash, and cards while communicating effectively with customers.
- Processed multiple daily stock deliveries, replenished items and organized displays and assisted with shop inventory management with routine stock taking.

Projects

Portfolio: https://robertsmith.xyz/
IoT Temperature and Humidity Monitor – Full-Stack Development (JavaScript) – Personal Project

- Developed a full-stack IoT system using React, Node.js, Express, and SQLite to simulate real-time temperature and humidity monitoring, showcasing proficiency in backend, frontend, and database integration.
- Implemented secure user authentication with JWT, allowing users to register and log in, and containerized the application using Docker for consistent deployment.
- Displayed simulated real-time data visualization using Chart.js, providing a clean and responsive UI to present temperature and humidity readings interactively.

Travel Booking System – Full-Stack Development (JavaScript) – Personal Project

- Developed a comprehensive travel booking system utilizing Node.js, Express, and MongoDB, enabling users to book flights, manage bookings, and access passenger information in real-time.
- Created and integrated RESTful APIs to facilitate seamless data interaction between frontend and backend, ensuring efficient handling and retrieval of flight and booking data.
- Implemented a dynamic user interface with React, ensuring a responsive and user-friendly experience for managing travel-related tasks.

Text and Image Analysis Multimodal – Python – Academic project – Achieved Grade 1.1

- Developed a multimodal machine learning model for identifying misogynistic content in memes, integrating textual and visual analysis to enhance detection capabilities significantly.
- Trained, fitted, and tested SVM, Logistic Regression, BERT, and VGG16 models using TensorFlow and Scikit-learn, with data manipulation facilitated by Pandas and NumPy, demonstrating comprehensive proficiency in modern data science tools.
- Evaluated model performance rigorously, utilizing metrics such as accuracy, precision, recall, and F1-score to demonstrate the model's effectiveness in detecting nuanced expressions of misogyny; results were visually presented using Matplotlib and Seaborn.

References

References available on request.