Oluwajolasun Jaiyesimi

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EXPERIENCE

Software Engineer – Full Stack Developer   **September 2023 – Present**
CANN Forecast Inc.   **Montreal, Canada.**
- Managed PostgreSQL databases developed data ETL pipelines using Python and Pandas, and performed spatial analysis using QGIS and GeoPandas for water management projects.
- Collaborated with domain experts to create user interfaces in React, interactive maps with Leaflet.js, Mapbox, and data visualizations with D3.js, resulting faster decision-making through improved data accessibility and visualization.
- Developed an automated email attachment downloader and uploader using Python (IMAP, SMTP libraries), reducing manual processing time by 90%, and integrated it into a CI/CD pipeline with Jenkins, increasing deployment speed.
- Presented project updates and results to both technical and non-technical audiences, leading to a 20% increase in stakeholder engagement and securing additional project funding.

Software Engineer – Machine Learning   **September 2022 – June 2023**
Hifi Engineering Inc.   **Calgary, Canada.**
- Developed and implemented machine learning algorithms (using Python, Keras, and TensorFlow) for sensor data analysis, detecting pipeline leaks with an accuracy rate of 95% in simulated leak scenarios.
- Collaborated with domain experts to ensure accurate modeling and integration of ML solutions, reducing false positives by 15% and enhancing detection reliability.
- Conducted validation tests that improved overall system sensitivity by 20%, optimizing leak detection performance in real-world scenarios.
- Communicated project impact on safety and operational efficiency to varied audiences, contributing to a projected 30% reduction in operational risks and improving overall safety protocols.

Junior Software Engineer   **October 2018 – June 2021**
Woodstock Electronics Limited   **Lagos, Nigeria.**
- Contributed to both frontend and backend development to enhance platform functionality, leading to a 20% increase in user engagement and 15% improvement in system performance.
- Developed interactive user interfaces using React, reducing page load times by 25% and improving user experience.
- Implemented backend components, integrating with RESTful APIs and databases on MySQL to ensure seamless data exchange, improving data retrieval speed by 30%.
- Proactively stayed updated with industry trends, incorporating new technologies

EDUCATION

Master of Engineering (MEng.), Software Engineering   **May 2021 – June 2023**
University of Calgary   **Calgary, Alberta.**
- Graduated with a cumulative GPA: 3.85/4.00

Bachelor of Engineering (BEng.), Electrical and Electronics Engineering   **October 2015 – July 2018**
Loughborough University   **Loughborough, United Kingdom.**
- Graduated with a 2nd Class Upper Honors, equivalent of a cumulative GPA:3.72/4.00.

SKILLS

Languages & Technologies: HTML, CSS, JavaScript (React, NodeJS, ExpressJS), PHP, Laravel, Python (NumPy, Pandas, TensorFlow, Keras, Scikit Learn), SQL (MySQL, PostgreSQL), NoSQL (MongoDB), Java (Spring Boot), C / C++, PHP, WordPress, Linux, MacOS, Windows, Docker, Git, GitHub, Jenkins, QGIS/GIS, Postman, AWS, nodemon, VSCode, Google Dev Tools, Jupyter Notebook.

Technical & Soft Skills: Agile and Scrum Development, CI/CD, Unit Testing, OOP, SOLID Principles, Design Patterns, Software Development Principles, Analytical Thinking, Attention to Detail, Problem Solving, Critical Thinking, Responsive Web Design, Cross-Browser Compatibility, Communication, Collaboration, Time Management, Adaptability, Presentation Skills.

PROJECTS

Student Course Registration System
- Developed the back-end application using Java Spring Boot, creating REST API endpoints for CRUD operations such as student registration, viewing available courses, enrolling in courses, updating course details, and managing course drops.
- Designed the front-end application using React.js to provide a user-friendly interface for students to view, enroll, and manage their courses.
- **Technologies**: ExpressJs, JavaScript, React, MySQL, MVC Architecture, REST API, AWS