Oluwajolasun Jaiyesimi

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SKILLS

Languages & Tools: HTML, CSS, JavaScript, TypeScript (React, NodeJS, ExpressJS), C# (ASP.NET MVC, ASP.NET Core)Java (Spring Boot), Golang, PHP (Laravel), Python (Django, TensorFlow, Keras), SQL (MySQL, PostgreSQL), NoSQL (MongoDB), C / C++, AWS, WordPress, Linux, MacOS, Windows, Jira, Docker, Git, GitHub, Jenkins, QGIS/GIS, Postman, VSCode.

Technical & Soft Skills: Agile and Scrum Development, CI/CD, Unit Testing, Automated 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.

EXPERIENCE

Software Engineer – Full Stack Developer   September 2023 – Present
CANN Forecast Inc.   Montreal, Canada.

- Managed PostgreSQL databases developed data ETL pipelines using Python's 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.

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%.

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.

PROJECTS

Student Course Registration System

- Developed the back-end application using ExpressJs, 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