Ikenna Ifekaonwu

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EDUCATION

Georgia Southern University, Statesboro M.S Mechanical Engineering (Mechatronics) Federal University of Technology, Owerri B.S Mechanical Engineering

Georgia,USA 2021 Imo, Nigeria 2014

SKILLS

Programing: Java, Spring boot, Python, MATLAB, JavaScript, React, Django, React Native, CSS, HTML, Bootstrap, DynamoDB, MySQL, Firebase, AWS, Microsoft Azure

Software: Git, Jira, Bitbucket, Ansys Workbench, Solid works, AutoCAD, Autodesk Netfabb, Adobe Illustrator, Photoshop, After Effects.

Expertise: Amazon Web Service(AWS), Front-end Development, Java Microservice, Junit Testing, Core Java Programming, Database Application Development, Agile methodologies and Design Pattern, REST APIs, Collaborative Development

WORK EXPERIENCE

Aipalbot LLC California, USA

Full Stack Developer Jan 2020 – Present (remote)

- Developed REST API using Spring boot and MySQL database
- Conducted the implementation of MVC pattern using React JS and spring controller
- Created API to connect AWS DynamoDB with S3 for large data storage
- Extensive use database programming to store data, functions and triggers using SQL, and MySQL.
- Use Spring boot to develop various Restful APIs that accept and process requests in a readable format such as JSON.
- Created clinician registration form and validation UI using React Hooks
- Collaborated extensively with other team members to develop enterprise applications using Object Oriented Programming and, Scrum and Agile approach.
- Migrates projects to AWS cloud.

Georgia Southern University Statesboro, Georgia, USA

Graduate Research Assistant August 2019 - till date

- Optimized a MATLAB code for quality assurance of additive manufactured structures via video magnification
- Created a Fast Fourier Transformation for analysis of the frequency of 3D printed materials.
- Conducted a spatial decomposition of video signal with a phase-based motion magnification technique and reconstruction of the magnified output.
- Modified initially created web design (Cybertrain) for online learning.

Citrans Telematics Solutions, Lagos, Nigeria

Hardware and Software Specialist October 2015 – July 2019

- Performed system upgrades, software updates, and configuration of telematics devices on RS485 Holykell Fuel level sensors
- Installed the electronic fuel monitoring system for vessels, vehicles, and generators and ensure GPS signals and data are sent to the OEM and end-user
- Performed vehicle diagnostics by connecting devices to the vehicle's onboard diagnostics (OBDII)
- Created an automated vehicle report delivery system to end-user using Excel and Python

• Performed system troubleshooting to determine the root cause and provided corrective action to prevent future failures through investigation and analysis.

PROJECTS

AipalCare (React, Java, Azure, AWS)

- Created functional component for patient registration User Interface (UI) using React Hooks and Material UI
- Performed the implementation of the patient profile page in Java, using AWS API Gateway and Microsoft Azure.
- Utilized AWS Lambda and API gateway for application performance

Cybertrain (Python, Django, html, CSS, JavaScript)

- Created a REST API using Python, Django Framework with SQL database
- Designed and developed the User Interface using Bootstrap, Html, CSS and JQuery

Vehicle lease application(Java, Spring Boot, AWS, React)

- Developed the application using Spring-boot microservices
- Designed the UI using a class based components in React with React-redux
- Created a REST API for the implementation of the application
- Utilized AWS resources such as DynamoDB and S3 for data Storage using Elastic Beanstalk for endpoint creation.

Phase Based Motion Estimation(MATLAB)

- Improved on the phase based motion estimation algorithm in MATLAB
- Performed a linear filter to eliminate noise from the image
- Carried out the Fast Fourier Transformation (FFT) to determine the natural frequency of a test object from the video signal.
- Analysed test sample damages using the motion estimation algorithm

Portfolio website(Java, Spring Boot, MySQL, React)

- Utilized React's class based component in creating the user interface
- Designed and developed the backend using Spring Boot Microservices
- Secured the application using Spring Boot security and JSON Web Token (JWT)
- Utilized AWS DynamoDB and S3 for data storage, with endpoint creation using Elastic Beanstalk and EC2.
- Deployed the application using AWS Route53