Ikenna Ifekaonwu

Software Engineer

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SKILLSET

- Over 6 years of experience in software development.
- More than 4 years experience using React, NodeJs.
- Experienced in an Agile Scrum development environment, participating in Sprints and Scrums; and employing Test Driven Development (TDD) and Continuous Integration.
- Demonstrated proficiency in creating unit tests and synthetic UI tests through the use of Jest, Enzyme, React Testing Library, Cypress, and Selenium.
- Experience using tools such as Splunk and Datadogs for application health and user monitoring.
- In-depth understanding of OOP programming theory (e.g., polymorphism, inheritance, data abstraction, data encapsulation) and demonstrated skill programming in Java, Python, Swift and C#.
- Skilled in implementing design patterns such as Singleton, Delegate, Notifications, Factory, Adapter, and MVC and MVVM architectures.
- Skilled gathering requirements and producing technical documentation and wireframes.
- Goal-oriented with a focus on client satisfaction, confident and comfortable working on any team size.
- Experience working in multicultural Agile Scrum environments with both local and remote teams.
- Use 3rd-party frameworks and libraries for various web services and APIs. Consume and manage REST and SOAP web services with XML and JSON formats.
- Working Knowledge on MongoDB, DynamoDB, DocumentDB and Bootstrap Technologies.
- Well-developed knowledge on object-oriented programming languages like Java, Python, Swift.
- Experience with Git version control systems such as Github and Github Actions, AWS CICD and Jenkins
- Working Knowledge on Agile Software Development methodology.
- Ability to make technical decisions and influence the overall technical design. Designed and developed intranet web applications using JavaScript and CSS.
- Strong experience building applications using Django, Python, Html, CSS
- Experience in testing website and applications in multiple browsers to ensure cross browser compatibility. Compile timely, comprehensive, and accurate documentation and or reports as requested
- Designing algorithms and flowcharts to create new software programs and systems
- Testing and deploying programs and applications, modifying software to fix errors, adapt it to new hardware, improve its performance, or upgrade interfaces.
- Designing and developing software systems with a focus on scientific analysis and mathematical models to predict and measure outcomes. Proficient in utilizing CNN models with TensorFlow, Keras, PySpark, and executing Databricks SQL queries.
- Proven ability to prioritize, multi-task, and work well under pressure. Organized, self-motivated, with strong leadership skills and ability to take ownership of projects. Strong team player as well as self-driven and able to work independently as well as in the team.
- Ability to learn and implement new technologies and challenging concepts quickly.

TECHNICAL SKILLS

Programming Languages
JavaScript, Java, Python, HTML/CSS, SQL, MATLAB

Web Services
RESTful, SOAP, JSON, XML

Architecture & Design Patterns
MVC, MVP, MVVM, Abstract Factory, Builder, Singleton

Testing
Enzyme
Selenium
React-testing Library
Jest
PostMan
Synthetic UI testing

Software Project Management
Agile, Scrum, Pair Programming, Xtreme Programming, Software Development Lifecycle Requirements Daily Scrums, Task Prioritization, Working with Product manager, Scrum Master

IDEs/UI Tools
Datadogs
IntelliJ
Figma
Adobe Illustrator
Visual Studio

Frameworks / Library
Typescript, React, React-Redux, React-Router, Angular, Django, bootstrap, Material UI, Semantic UI,

Databases
SQL, MySQL, SQLite
MongoDB, DynamoDB
DocumentDB, Firebase

Desktop Software
Proficient in Microsoft Office Word, Excel, PowerPoint, & Access

Project Tools
JIRA, Confluence, Slack, Mirro, Teams

Version Control
Git, GitHub, SourceTree, Bitbucket

Continuous Integration
Jenkins, AWS CICD
Github Actions

EXPERIENCE

April 2023 - Current
Software Engineer II
John Deere *(Aquent LLC) | Hybrid*

Technology: *NodeJs, ReactJs, AWS, Docker, React-testing library, Redis*
App Summary: This is an internal application for John Deere which serves as a central place to catalog and document data within the company, request/govern access to data, provide a robust discoverability features to aid in finding the right data for a given analysis and facilitating triggering the appropriate approvals for permission requests and registering data.

- Migration of the Node.js application from version 14 to 18, and from Elastic Beanstalk to ECS.
- Implemented React Testing Library, Enzyme, and Synthetic UI testing with Datadog for debugging and fixing errors in the application.
- Conducted realtime user monitoring of the application using Datadog's RUM functionality.
- Introduced the use of visualDiff functionality to highlight changes made by users, providing an easy visualization of requests.
- Implemented Papaparse for accurate parsing of CSV and XLSX file formats. Additionally, integrated the use of AVRO AVDL file format in the application.
- Utilized GitHub Actions for continuous integration and deployment of the application.
- Developed a permission request data validation algorithm and implemented scroll-to-page functionality to help users identify where errors occurred and how to resolve them
- Implemented duplicate schema name validation to prevent users from inputting schemas with the same version, thus improving the user experience.
- Conducted application troubleshooting to identify root causes of issues, fixed failing tests, and introduced unit tests for new features.
- Ensured cross-platform compatibility by using components that are friendly with various screen sizes.
- Implemented caching with Redis Cluster for handling small data and to improve application performance
- Performed backend queries using Databricks SQL and utilized OpenSearch and Kibana for data search queries

August 2022 - April 2023
Software Engineer II
Nike *(Kforce Inc) | Hybrid*

Technology: *React Js, web Services, Agile, Node, AWS, HTML, XML, CSS3, JavaScript,*
App Summary: A Nike Data Streaming platform used to collect, process and analyze data from various sources, allowing Nike to better understand customer preferences, improve their products and marketing strategies, and make data-driven decisions.
- Performed complete unit testing using Jest, enzyme and react-testing library, synthetic UI test using data dog, end-to-end testing using cypress and selenium.
- Created and maintained states in the stores and dispatched the actions using redux.
- Used Middleware, React Sagas in application to retrieve data from Back-End and to perform Restful services.
- Created API endpoints that are consumed in the UI using expressJs.
- Built data pipelines using Kafka and Spark streaming using the feed from API streaming Gateway REST services.

- Used component UX-library such as SheetJs to parse CSV and XLSX files to AG Grid tables.
- Used Object Oriented Programming concepts to develop UI components that could be reused across the Web Application.
- Designed and developed a distributed queue system to efficiently consume, transform, validate, and store data from upstream sources in DynamoDB and DynamoDB Stream and publish it downstream, resulting in a 90% reduction in data loss.
- Developed and executed an algorithm utilizing Python, SQL, and Excel to identify discrepancies in contract data, resulting in the elimination of human error and a 75% improvement in efficiency.
- Utilized Splunk to process and monitor organizational data, integrating Apache Kafka for data streaming and publishing to over 4 million subscribers.
- Performed complete unit testing for high-profile customer-facing interface applying knowledge of Jest eliminating the system's failure rate by 82%.
- Documented solution architecture for critical external applications, reducing time-to-market by 54% ensuring high code maintainability.
- Led mentorship and organized Knowledge Transfer (KT) sessions for new team members, covering high-profile application development, agile practices, and design sessions resulting in a shorter time to onboard.

December 2021 – July 2022
React Js Developer
Nike *(Infosys ltd) | remote*

Technology: *HTML, XML, CSS3, JavaScript, React Js, web Services, Agile, AWS, Java, DynamoDB, S3*

App Summary: A*n application that allows Nike to monitor factory production processes and measure productivity. It provides real-time data and analytics on factory performance, enabling companies to make informed decisions on supply chain management and improve overall efficiency. Additionally, it can also provide alerts and notifications of any issues that arise during the manufacturing process.*
- Implemented React JS code to handle cross browser compatibility issues in Firefox, Chrome, IE 7, 8, 9 and Safari
- Resolved responsive issues by designing and developing a single Isomorphic responsive website that could be served to desktop, tablets and mobile users.
- Implemented the Drag and Drop functionality using React-Draggable.
- Performed Unit testing, Integration testing and Regression testing for complete UI
- Extensive use of debugging tools such as Redux Dev tools to investigate issues and fix the bug.
- Worked on React Virtual Dom and React Views, rendering using components which contains additional components called custom HTML tags.
- Implemented React container as Stateless and functional components when applicable.
- Integrating third-party libraries and external APIs as part of implementation of high-volume internal web application resulting in significant improved app functionality and increased system resilience by 80%.
- Altered various workflows such as the checkout experience by redesigning UIs based off wireframes from lead architect.
- Used Object Oriented Programming concepts to develop UI components that could be reused across the Web Application, also implemented micro-frontends.
- Refined and improved the existing code for high-profile external web app that significantly improved app functionality and processing speed by 20%.

August 2019 – May 2021
Web Developer
Georgia Southern University | *Statesboro, GA*

Technology: HTML, XML, CSS3, JavaScript, web Services, React Js, web Services, Agile, SQLite, Python, Django
App Summary: A Cyber security online learning platform which utilizes external APIs from social media platforms to enhance the platform's functionality and an in-built video storage database to train students on cyber crime awareness. The platform aimed to increase students' awareness and understanding of cyber threats and how to protect themselves from them.

- Implemented OOP and patterns such as Abstract Factory, Decorator, Façade, and Singleton.
- Developed the entire backend module using Python on Django Framework.
- Performed complete unit testing and integration testing.
- Contributed input on UI implementation, frameworks, and functionality, as well as mentored the team on best practices.
- Created and used Reducers that received said Actions to modify the stored state
- Used Middleware, Redux-Promise in application to retrieve data from back-End and to perform Restful services.
- Maintained states in the stores and dispatched the actions using redux.
- Worked with React Js components, Forms, Events, Router, Animations and Flux concept.
- Interpreted UI design conceptualized using Adobe illustrator and Figma
- Used Git on a private Git server with Jenkins for continuous integration.
- Used Object Oriented Programming concepts to develop UI components that could be reused across the Web Application.
- Used Axios and JSON to interact to APIs, Restful Web Services

CERTIFICATION
Amazon Web Services Certified Developer - Associate - 2021
Amazon Web Services Cloud Practitioner - 2021
Google Project Management Certificate - 2022

EDUCATION
Master of Science - Mechatronics & Robotics - 2021

Georgia Southern University