Rose Adeyinka

Software Engineer

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Professional Summary

Accomplished software engineer at a leading Africa-focused, technology-driven company, contributing to backend systems that processed over **1.2 billion transactions in a single month** across Nigeria, ensuring scalability, security, and efficiency in high-volume financial transactions. I work within a team focused on disputing, settling, and reporting transactions across millions of daily operations, and my role involves optimizing backend processes to ensure secure and efficient handling of transaction disputes and settlements. Demonstrated a focus on collaboration, efficiency, and customer satisfaction by working cross-functionally to deliver impactful solutions. Leveraged data-driven insights and innovative technologies to troubleshoot complex issues, drive continuous improvement, and deliver measurable business success.

Professional Appointments

Interswitch Group | Software Engineer (March 2023 – Present)

Backend Software Engineer (February 2024 – Present)

- Streamlined workflow to improve productivity by 25% through the implementation of agile methodologies across cross-functional teams.
- Conducted rigorous testing, reducing deployment-stage bugs by 40% and enhancing overall software reliability.
- Maintained project momentum by delivering detailed progress reports and milestone updates to key stakeholders, resulting in a 20% increase in project visibility and timely completion of project milestones.
- Enhanced security measures, implementing robust algorithms that prevented data breaches and increased data protection by 35%.
- Provided technical support during the installation process, achieving a 75% satisfaction rate and ensuring a smooth transition for users

Backbone Intern (March 2023 – January 2024)

- Produced clean, error-free code in line with internal quality standards, achieving a 30% reduction in post-deployment bugs.
- Integrated automated testing into an existing application, reducing manual testing time by 50% and supporting CI/CD practices, which improved deployment efficiency by 30%.
- Improved code modularity by 35% and reduced code duplication by 40%, enhancing code maintainability and simplifying future updates.
- Managed source code using version control tools, ensuring seamless tracking and revisions, resulting

in a 25% decrease in code merge conflicts.
- Executed quality assurance checks, maintaining a 90% success rate in meeting product quality standards and ensuring high-quality output with minimal rework.

Semicolon Africa | Software Engineer (*March 2022 – March 2023*)

- Infused third-party services into software products, expanding functionality and increasing feature offerings by 25%.
- Collaborated with developers to identify and resolve software bugs, reducing bug-related delays by 40% and improving code stability.
- Delivered projects within timelines by implementing effective task management practices, maintaining 80% on-time delivery rate.
- Conducted regular system updates, achieving a 20% reduction in response time, and enhancing performance optimization by 30%.
- Stayed updated on industry trends through continuous learning, applying relevant knowledge to improve project outcomes and efficiency by 15%.

DAV JEK Communication Technology | Technology Trainer – Hardware and Software (*Aug 2021 - Sep 2021*)

- Designed and developed training programs, resulting in a 40% improvement in learners' proficiency in using software applications and operating systems.
- Delivered training sessions to 30+ learners, maintaining a 60% attendance rate throughout the program.
- Assessed learners' understanding through tests and quizzes, with an average score improvement of 25% from pre-test to post-test evaluations.
- Developed training materials, receiving positive feedback from 75% of learners on the clarity and usefulness of the materials.
- Provided technical support to learners and ensured a smooth learning experience.

Software Projects

Dynamic Association and Management System
- *Engineered a flexible backend system to dynamically map and retrieve entities, accommodating different types and handling 100,000+ records. This solution enabled automatic default selections with optional custom entries.*

Impact: Automatic default selections with optional custom entries, improving backend response times by 25%, and ensuring precise error feedback, significantly enhancing user experience and adaptability across diverse scenarios.

Technologies: Java, Spring Boot, REST API, DTO Mapping, SQL Repository, Exception Handling

Established Code Coverage with JaCoCo to Improve Code Quality
- *Led the implementation of JaCoCo for code coverage in an existing application, embedding it directly within the build process to track test coverage and optimize development efforts. Configured JaCoCo reporting to identify gaps in coverage and collaborated with team members to prioritize unit testing in critical areas of the codebase.*

Impact: Elevated code coverage by 40%, strengthening code maintainability, and setting a foundation for future test-driven development practices.
Technologies: Java, Spring Boot, JaCoCo, Maven

Transaction Resilience with Detailed Error Handling in Job Scheduling System
- *Developed an integrated solution utilizing Jackson's ObjectMapper for seamless JSON deserialization of error responses; enabled precise tracking of over 30 unique transaction failures, leading to actionable improvements in backend operations.*

Technologies: Java, Spring Boot, SQL, Redis, Jackson, ObjectMapper, Exception Handling, JobRunr, Shedlock

Technical Skills

- **Languages & Frameworks**: Java, Spring Boot, Microservices, Python, Flask, JavaScript, React
- **Database & Integration**: SQL (PostgreSQL, MySQL, SQL Server) and NoSQL (MongoDB, Redis), API Integration
- **CI/CD Tools & Cloud Technologies**: Maven, Gradle, Docker, Jenkins, Kubernetes, Grafana, Azure, Jira Cloud, Jacoco
- **Software Architecture & Design**: Software Architectures, Design Patterns, API Design, Unified Modeling Language (UML)
- **Programming & Development**: Advanced Algorithms & Implementation, Application Development, Efficiency Optimization, Fault Diagnosis, Software Debugging, Unit & Software Testing
- **Collaboration & Version Control**: Collaborative Development, Agile Methodologies, Git, Code Reviews
- **Security & Optimization**: Network Security, Performance Optimization

Education

Bachelor of Science in Demography and Social Statistics
Federal University Oye-Ekiti (January 2020)

Certifications & Trainings

- **AWS Certified Machine Learning - Specialty –** O'reilly (October 2024)
- **Interswitch Academy Engineering Development Program (certificate link)** – Interswitch (December 2023)
- **Associate Data Scientist (certificate link)** - DataCamp (July 2023)
- **Software Engineering -** Semicolon Africa (March 2023)
- **Business Management** - Henley Business School (November 2022)
- **AWS Well-Architectured (certificate link)** – AWS (September 2022)
- **Computer Programming for Everyone (certificate link) -** University of Leeds and Institute of Coding (November 2020)