

FREDRICK OTIENO

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Certification: [Certified AWS Cloud Engineer](#)

Dynamic AWS Cloud Engineer with a strong foundation in cloud infrastructure management and a passion for driving innovation through technology. Proficient in designing, deploying, and managing scalable cloud solutions using AWS services. Adept at optimizing cloud resources, ensuring high availability, and implementing robust security measures. Committed to continuous learning and delivering high-quality solutions that align with business objectives.

Skills

- **Cloud Infrastructure:** AWS EC2, AWS S3, AWS Lambda, Amazon RDS, Amazon EKS
- **DevOps Tools:** Jenkins, AWS CodePipeline, AWS CloudWatch, AWS CloudTrail
- **Security:** IAM, VPC, Security Groups, WAF
- **Databases:** Amazon RDS, MySQL, PostgreSQL
- **CI/CD:** Continuous Integration, Continuous Deployment
- **Monitoring & Logging:** CloudWatch, CloudTrail
- **Cost Optimization:** Resource tagging, Reserved Instances, Savings Plans
- **Collaboration:** Agile methodologies, Cross-functional team collaboration

EXPERIENCE

AIRTEL KENYA

CLOUD ENGINEER

July 2024 - December 2024 | Nairobi County, Kenya

- **Optimized AWS Infrastructure:** Analyzed and reduced monthly cloud spending by 25% through effective resource utilization and tagging strategies.
- **Disaster Recovery Solution:** Developed a robust disaster recovery plan using AWS S3, RDS, and Route 53, ensuring minimal downtime and data loss for critical applications.
- **Legacy Application Migration:** Successfully migrated legacy applications to AWS, enhancing performance and scalability with seamless user experience.
- **Kubernetes Implementation:** Contributed to the deployment of containerized applications using Amazon EKS, improving application orchestration and resource management.

- **Monitoring & Security:** Implemented AWS CloudWatch and established security protocols to ensure compliance with industry standards.
- **CI/CD Pipelines:** Automated deployment processes using Jenkins and AWS CodePipeline, reducing time-to-market by 30%.
- **Team Collaboration:** Collaborated with cross-functional teams to define cloud strategies and create comprehensive documentation for best practices.

ACHIEVEMENTS

- Achieved 98% uptime for cloud-hosted services through proactive monitoring and maintenance.
- Recognized with the Airtel Kenya Excellence Award for contributions to cloud initiatives.

CERTIFICATION

- AWS Cloud Quest - AWS CLOUD PRACTITIONER – [VERIFY THE CERTIFICATE](#)

PROJECTS

- **The Cloud Resume Challenge** - [Visit](#)

I took part in the Cloud Resume Challenge where you are expected to code your resume from scratch and use relevant AWS cloud services in your resume.

- **Crude Oil to Fuel Price Calculator** - [Visit](#)

This project predicts the prices of diesel, paraffin, and petrol based on the current crude oil price. The machine learning model was developed using **AWS SageMaker**, trained on a dataset spanning 10 years of crude oil prices. The dataset was sourced through web scraping with **Python's BeautifulSoup**, followed by data cleaning and storage in an **Amazon S3 bucket**, enabling seamless integration with SageMaker. Additional AWS services were utilized to **enhance functionality and scalability**. **Docker** was employed for **containerization to streamline deployment and development**. The project is currently in progress.

JAVA BACKEND

GITHUB PROFILE

Java Skills & Expertise

Technical Proficiency

- **Core Java** : Strong understanding of Object-Oriented Programming (OOP) principles, data structures, algorithms, exception handling, multithreading, and concurrency.
- **Advanced Java Features** : Proficient in Java 8+ features such as Lambda expressions, Streams API, Optional class, and functional programming paradigms.
- **Java Frameworks** : Experience with Spring Framework (Spring Boot, Spring MVC, Spring Data JPA), Hibernate ORM, and Maven/Gradle for dependency management.
- **Web Development** : Skilled in building RESTful APIs using Spring Boot and integrating them with frontend technologies like HTML, CSS, and JavaScript.
- **Database Integration** : Hands-on experience with JDBC, Hibernate, and database systems like MySQL, PostgreSQL, and MongoDB.
- **Testing & Debugging** : Familiar with unit testing frameworks (JUnit, Mockito) and debugging tools (Eclipse Debugger, IntelliJ IDEA).
- **Version Control** : Experienced with Git for version control and collaboration in team environments.

Projects & Contributions

1. Library Management System

- Developed a web-based application using **Spring Boot** and **Hibernate** to manage books, users, and transactions.
- Implemented CRUD operations for book inventory management and user authentication using **RESTful APIs** .
- Utilized **MySQL** for database storage and ensured data integrity through proper indexing and normalization.
- Enhanced performance by optimizing queries and leveraging **Java Streams API** for efficient data processing.

2. E-commerce Platform

- Built a scalable e-commerce platform using **Spring MVC** and **Thymeleaf** for dynamic content rendering.
- Integrated payment gateways (e.g., PayPal, Stripe) and implemented shopping cart functionality using **Java Collections** .
- Designed a robust backend architecture with **Spring Data JPA** for seamless interaction with the database.
- Conducted thorough testing using **JUnit** and **Mockito** to ensure reliability and accuracy.

3. Employee Attendance Tracker

- Created an employee attendance tracking system using **Java Swing** for the GUI and **JDBC** for database connectivity.

- Implemented real-time notifications and automated report generation using **Java Timer** and **PDFBox** library.
- Optimized codebase by refactoring repetitive logic into reusable methods, reducing redundancy by 40%.

4. File Processing Utility

- Developed a utility tool in **Java** to process large files (up to 5GB) efficiently using **NIO** and **multithreading** .
- Achieved a 3x improvement in processing speed by implementing parallel file reading and writing.
- Ensured thread safety and resource management using **synchronized blocks** and **ExecutorService** .

5. Chat Application

- Designed and implemented a multi-user chat application using **Java Socket Programming** and **RMI (Remote Method Invocation)** .
- Enabled secure communication by encrypting messages with **AES encryption** and managing user sessions effectively.
- Demonstrated proficiency in handling concurrent connections and maintaining state across multiple clients.

Achievements & Contributions

- Successfully reduced API response time by 25% through query optimization and caching strategies in a production environment.
- Contributed to open-source Java projects on GitHub, focusing on bug fixes, feature enhancements, and documentation improvements.
- Mentored junior developers in mastering core Java concepts and best practices, leading to a 30% increase in team productivity.
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