

Joel Osagie Paul

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SOFTWARE ENGINEER

Professional Summary

Highly skilled and motivated professional with a strong foundation in software engineering, cloud solutions architecture, and data science. Combining technical expertise with organizational excellence, I have consistently delivered impactful solutions in fast-paced, high-pressure environments. Known for exceptional problem-solving, analytical thinking, and leadership capabilities, I excel in both collaborative and independent settings. With a proven track record in developing, deploying, and managing technical systems, I am committed to driving success in technical and organizational roles.

Technical Skills

- **Programming & Frameworks:** Python, SQL, Ruby on Rails, Node.js, React.js, Redux, Flask, bash
 - **DevOps & Cloud Tools:** Docker, Kubernetes, AWS (S3, CloudFront, Terraform), Jenkins
 - **Databases:** MySQL, PostgreSQL, MongoDB
 - **Front-End Development:** HTML, CSS, JavaScript,
 - **Data Science & Analysis:** Data visualization, machine learning models, data entry and processing
 - **Email & Campaign Tools:** Mailchimp, Nodemailer
 - **Other Tools:** PowerShell, Excel
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Professional Experience

Software Engineer

Practical DevOps | Remote

Sep 2023 – Present

- Designed and implemented a multi-tier web application architecture using React.js, Node.js, and MySQL, reducing frontend-to-backend latency by 30% and improving query response times by 25%.
- Automated deployment pipelines using Docker and Jenkins, reducing deployment time from 20 minutes to under 5 minutes and achieving 99.8% CI/CD success rate.

- Developed a REST API with file upload functionality using Multer and Cloudinary, handling 10,000+ monthly uploads with <1% failure rate.
- Implemented a password reset & email notification system using Nodemailer, reducing user support requests by 40% and cutting average password recovery time from 24 hours to 10 minutes.
- Built scalable cloud infrastructure on AWS, provisioning static websites via S3 and Terraform, reducing hosting costs by 35% while maintaining 99.9% uptime.
- Optimized DevOps workflows by integrating Jenkins pipelines with GitHub webhooks, reducing manual intervention by 90% and enabling 50+ automated deployments per week.

Backend software developer

MAX MIGOLD Ltd | Lagos, Nigeria

Sep 2023 – Feb 2024

- Designed and optimized a multi-tier backend architecture using Node.js, Express, and MySQL, reducing API response times by 30% through query optimization and indexing.
- Built a high-performance RESTful API handling 10,000+ requests/minute, achieving <150ms latency and 99.99% uptime via load balancing and caching (Redis).
- Developed secure authentication flows (JWT, OAuth 2.0) and a password reset system, reducing account-related support tickets by 40%.
- Deployed scalable cloud infrastructure on AWS (EC2, S3, RDS, Lambda) using Terraform, reducing costs by 35% while maintaining 99.95% SLA compliance.
- Improved database performance by rewriting complex queries and introducing read replicas, cutting report generation time from 15s to 2s.

Software engineering intern,

Alx-Africa | Nairobi, Kenya (Remote)

Aug 2022 – Nov 2023

- Automated Nginx/Apache configurations using Bash scripting, reducing setup time from 1 hour to 5 minutes per server.
 - Implemented SSL/TLS automation (Certbot), ensuring 100% of servers maintain updated HTTPS certificates.
 - Managed Linux server environments (Ubuntu/CentOS), reducing downtime by 25% through proactive monitoring (Datadog).
 - Configured firewall rules (UFW/Iptables) and rate-limiting, blocking 500+ malicious requests/day.
 - Database design and management.
 - Enforced Git best practices (branching strategies, committing hygiene), reducing merge conflicts by 50%.
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Key Projects

- **Reminder App:**
 - Developed a task management app with Node.js backend and React frontend.
 - Implemented notification systems using Firebase Cloud Messaging for deadline reminders.
- **Vim Quizzer:**
 - Built a quiz platform leveraging Flask and integrated advanced CSS for responsive design.
- **Netflix Dataset Analysis:**
 - Conducted data analysis on a Netflix dataset using Python, deriving insights for content strategy decisions.
- **Dockerized Microservices Setup:**
 - Created a microservice architecture for a web app, integrating Nginx, Node.js, and MySQL services with Docker Compose.

Education

B.Eng in Petroleum Engineering (Second-Class Upper Honors)

University of Benin | Nigeria

2019

Certifications

AWS- Introduction to Machine Learning (Generative AI)	Oct 2024
ISO 50001 - Energy Management system	Apr 2024
Cisco- Networking devices and initial configurations	Mar 2024
AWS – IoT foundations: command and control	Mar 2024
AWS – DevOps on Aws	Feb 2024
AWS - introduction to cloud computing and storage	Feb 2024
Cisco - Networking Basics	Jan 2024
ALX-Africa - Software Engineering	Nov 2023
Simplilearn - Introduction to IoT	Oct 2023
Data Camp – Associate Data Scientist	Jun 2023

Core Competencies

- Strategic Problem-Solving.
- Technical Leadership and Mentorship.
- Agile Development and Collaboration.
- Deadline Management and Task Prioritization.
- Cross-Functional Team Communication.

