

# OKOTH ARNOLD

Backend Software Engineer | Data Pipeline Architect | Linux SysAdmin

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## PROFILE

Backend Software Engineer with 6+ years building scalable financial systems, data pipelines, and cloud infrastructure. Proven track record of optimizing system performance (30%+ improvements), automating deployments (40% faster releases), and delivering production APIs serving thousands of daily transactions. Specialized in Python, Linux, and DevOps automation with deep experience in the financial services sector.

## KEY ACHIEVEMENTS

- **Reduced deployment time by 40%** through Jenkins CI/CD pipeline implementation, enabling twiceweekly production releases with zero downtime
- **Optimized data processing efficiency by 25%** for agricultural supply chain operations at Bayer East Africa, processing 200GB+ daily data
- **Automated reporting systems saving 60%** of manual effort using Python and SQL, enabling same-day insights for field operations
- **Built RESTful APIs serving 10K+** daily financial transactions with 99.5% uptime and sub-200ms response times

## WORK EXPERIENCE

### Sybrin Kenya Limited

10/2022 – 10/2024

Backend Software Engineer

- Optimized SQL Server queries and stored procedures for account opening system, reducing query execution time from 3 seconds to 2 seconds (30% improvement) and supporting 3x user growth without infrastructure scaling
- Architected Jenkins CI/CD pipelines for microservices deployment, cutting release time from 2 hours to 45 minutes (40% reduction) and enabling twice-weekly production updates with zero downtime
- Led technical troubleshooting for production incidents across distributed systems, maintaining 99.5% system uptime and resolving 95% of issues within SLA through root cause analysis and preventive monitoring
- Mentored 1 junior developers on API design patterns, code review practices, and automated testing using pytest, improving team code quality metrics by 35%
- Collaborated with frontend team of 2 developers to design and document API contracts, reducing integration bugs by 50% through comprehensive Swagger/OpenAPI documentation

## **Independent Learning**

10/2020 – 10/2022

### *Career Development & Upskilling*

- Completed intensive training in cloud infrastructure (AWS, Docker, Kubernetes) and DevOps automation practices
- Built personal projects in backend development, API design, and infrastructure-as-code using Terraform
- Contributed to open-source projects focused on Python development tools and automation frameworks

## **Bayer East Africa Limited**

01/2019 – 01/2020

### *Data Analyst*

- Managed SAP master data maintenance for 500+ agricultural products across East Africa, ensuring 99.8% data integrity through automated validation scripts
- Built sales forecasting models using scikit-learn and pandas to predict new product performance, supporting strategic planning for agricultural product launches across 5 countries
- Created automated reporting systems using SQL and Python that reduced manual reporting time by 60%, delivering daily KPI dashboards for supply chain operations
- Designed data quality monitoring framework that identified and corrected 1,000+ data inconsistencies, improving downstream analytics accuracy by 40%

## **Bayer East Africa Limited**

10/2017 – 08/2018

### *Data & Analytics Specialist*

- Designed and built ETL data pipelines using Python and SQL to optimize local material data flow, achieving 25% increase in processing efficiency for 200GB+ daily agricultural data
- Utilized Python libraries (pandas, NumPy) to implement data modeling initiatives, transforming raw SAP data into analytics-ready format for 15+ stakeholders
- Created interactive data visualization dashboards using Matplotlib and Seaborn, improving data accessibility for field operations teams and reducing ad-hoc reporting requests by 45%
- Developed Python scripts to automate data cleansing processes within SAP systems, improving data quality and integrity for monthly and quarterly reporting cycles
- Collaborated with cross-functional teams across Kenya, Uganda, and Tanzania to standardize data collection processes, ensuring consistency across regional operations

## **Pevans East Africa Limited**

06/2016 – 11/2016

### *Assistant Mobile Developer*

- Developed cross-platform mobile applications using Apache Cordova, delivering 3 production apps for gaming and entertainment sector
- Integrated RESTful web services for real-time data synchronization, handling 5K+ concurrent users during peak hours
- Implemented responsive UI components using JavaScript and jQuery, achieving 95%+ user satisfaction scores in app store reviews

- Collaborated with backend team to design API contracts and optimize mobile data consumption, reducing bandwidth usage by 30%

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### TECHNICAL SKILLS

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<b>Core Expertise:</b> Python, SQL, PostgreSQL, MySQL, Flask, Django, RESTful APIs, Linux System Administration	<b>Cloud &amp; DevOps:</b> AWS (EC2, S3, RDS, Lambda), Docker, Jenkins, CI/CD Pipelines, Infrastructure Automation, Bash Scripting	<b>Data Engineering:</b> pandas, NumPy, ETL Pipelines, SQL Server, BigQuery, Data Modeling, Apache Spark
<b>Databases:</b> PostgreSQL, MySQL, SQL Server, MongoDB, Redis, Database Optimization	<b>Additional:</b> TypeScript, JavaScript, jQuery, Apache Cordova, SAP Data Management	

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### EDUCATION

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<b>Inoorero University</b> <i>Diploma In Information Science</i>	2011 – 2014
<b>Certifications</b> <i>Linux System Administrator Certificate</i>	2013

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### PROFESSIONAL REFERENCES

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Available on Request