

**JOY MUGAO**  
**Software Engineer | Systems Architect**

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[LINKEDIN](#) [GITHUB](#)

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## SUMMARY

Software DevOps Engineer with more than 2yrs hands-on experience designing secure architectures, building multi-account environments, and automating infrastructure for enterprise-scale platforms serving 10K+ users. Skilled in AWS Organizations, Identity Center, VPC networking, and infrastructure automation using Terraform, Kubernetes, and CI/CD pipelines. Proven ability to drive cloud cost optimization, high availability, and developer productivity. KCNA Certified.

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## SKILLS

- **Programming Languages:** Python, JavaScript, ,Golang HTML, CSS, C#, Bash/Shell Scripting
  - **Frontend:** React, Next.js, Bootstrap, Tailwind
  - **Backend:** ,AngularJS ,Node.js, Express.js, Flask, .NET,Django
  - **Databases:** MySQL, MongoDB
  - **Tools:** Git,
- **Cloud & Infrastructure :** AWS (EC2, Lambda, S3, RDS), Google Cloud Platform, Kubernetes, Docker, Terraform, Ansible
  - AWS Organizations, IAM, Identity Center (SSO), VPC Design, Routing, Security Groups, EC2, RDS PostgreSQL, S3, Lambda, CloudWatch, CloudTrail, ALB/NLB, Multi-account architectures, Environment separation, DR/Backups
- **DevOps & Tools :** Jenkins, GitHub Actions, GitLab CI/CD, Azure DevOps Prometheus, Grafana, ELK Stack ,Terraform . Ansible
- **Architecture:** Microservices, Event-Driven Systems, Distributed Systems, RESTful APIs System Design
- **FinOps:** Cost allocation, Budgets, Cost visibility dashboards, Resource optimization

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## EXPERIENCE

### Software Engineer | Enkaare

Aug 2024 – Present | Remote, Baltimore, MD

Enterprise HR platform and blockchain subsidiary serving 100K+ users.

- Architecting and developing two full-stack applications (Enkaare HR and Black Panther Token) from scratch using React, Node.js, and MongoDB, delivering MVPs in 8 weeks serving 5K+ concurrent users.
- Migrating legacy monolith to microservices; improved deployment velocity by 10x and achieved 99.99% uptime with p99 latency under 200ms.
- Implementing Kubernetes auto-scaling and distributing caching reducing database load by 60% and infrastructure costs by 40%.
- Designing CI/CD pipelines (Jenkins, Docker, GitHub Actions) enabling 50+ deployments/week with 75% fewer production incidents.

- Collaborating cross-functionally to deliver a payment automation system reducing transaction processing time by 80%, driving \$100K in enterprise deals.  
Key Achievement: Reduced operational costs by 40% while scaling to 10K+ active users.

## Software Quality Assurance Engineer | Enkaare

Apr 2024 – Jul 2024 | Baltimore, MD

*Established quality engineering foundation for rapidly scaling startup.*

- Built automated test frameworks achieving 80% code coverage; caught 95% of bugs pre-production.
- Conducted performance testing using JMeter, improving system capacity 5x and API reliability by 20%.
- Integrated test suites into CI/CD pipeline, reducing post-deployment bugs by 20%.
- Facilitated QA knowledge transfer, reducing testing bottlenecks by 40%.

## PROJECTS

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[View my Portfolio](#)

## EDUCATION

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### Kenyatta University (2017 – 2023)

BSc Industrial Chemistry

### Cyber Shujaa (2025)

Cloud and Network Security

#### Certifications:

- **Linux Foundation, 2024**  
[Kubernetes & Cloud Native Associate \(KCNA\)](#)  
[LFS250: Kubernetes and Cloud Native Essentials Certificate](#)  
[LFS158: Introduction to Kubernetes](#)
- **DevOps Engineering Certificate — Moringa School, 2024**  
[Verify Certificate](#)
- **JavaScript RAG Web Apps — DeepLearning.AI, 2024**  
[Verify Certificate](#)
- **Software Engineering Certificate \_\_ Zindua Coding School 2023**

## VOLUNTEER EXPERIENCE

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- Google Top 40 Women in Software Engineering Kenya 2024 — Recognized for innovation in distributed systems.
- Technical Coordinator | Tech Sisters Kenya — Lead 50+ engineers in workshops on cloud-native architectures.
- Technical Writing & Mentorship — Published technical blogs on medium; led 5+ deep dives on kubernetes adoption.

 [Medium Profile](#)