

Kelvin Emeka Nwachukwu

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DevOps engineer with 2+ years of experience building complete CI/CD systems, organizing cloud native infrastructure, and improving deployment workflows across engineering teams. Skilled at defining clear release processes, setting up monitoring that exposes real system behavior, and documenting standards adopted across projects. Brings strong ownership, continuous learning energy, and a collaborative mindset rooted in best practices and CNCF principles.

Skills & Technologies

- **Languages:** Javascript, Typescript, Bash, Python, Shell Scripting, Node.js, MongoDB, PostgreSQL
- **Technologies & Frameworks:** Terraform, Git, Docker, Kubernetes, Ansible, CI/CD, ArgoCD, Linux, HTML, React.js, Next.js, Unit Testing, Prometheus, Grafana, SonarQube, AWS, Azure
- **Interests:** Deep Learning, MLOps, AIOps, Cloud-Native Ecosystem (CNCF)

Projects

Enterprise DotNet Capstone CI/CD Pipeline [Project Repo](#)

- Designed multi stage **Jenkins pipeline** with **Pre build phase (Checkov** IaC security scanning, **Trivy** vulnerability scanning, **Terraform** validation, **SonarQube** code analysis), **Build phase (.NET** compilation, **Docker image** creation, container scanning), and **Post-build phase** (CD repository updates, automated notifications).
- Built multi namespace **Kubernetes architecture** separating **SonarQube NameSpace**, **Monitoring NameSpace** (**Prometheus/Grafana**), **Vault NameSpace**, and **Application NameSpace** for improved resource isolation and security.
- Implemented **MongoDB StatefulSet** with 3 node replica configuration (**Mongo-0**, **Mongo-1**, **Mongo-2**) using **persistent volumes** for high availability with automatic failover.
- Established automated deployment workflow with separate **GitHub repositories** for application code (Main/Dev branches with **PR workflow**) and deployment configurations (**CD repository**), enabling continuous deployment with automated repository updates.
- Deployed **HashiCorp Vault** in dedicated **Kubernetes namespace** for centralized **secrets management**, eliminating hardcoded credentials from microservices.

End to End Corporate Mega DevOps Project CI/CD [Project Repo](#)

- **Designed and implemented an end to end CI/CD pipeline** using Jenkins, GitHub webhooks, Docker, and Kubernetes on AWS EKS, streamlining the software delivery process.
- **Integrated SonarQube code quality analysis** into Jenkins pipeline to enforce quality gates, ensuring code meets organizational standards before deployment.
- **Implemented Nexus Repository Manager** for centralized artifact storage and Docker image registry management, maintaining version control and traceability.
- **Established webhook driven automation** between GitHub and Jenkins for continuous integration triggered by code commits, enabling rapid feedback to development teams.
- **Documented CI/CD processes and deployment procedures** for knowledge sharing and operational consistency across teams.
- **Deployed monitoring infrastructure** using Prometheus and Grafana to provide real time visibility into Kubernetes cluster health and application performance metrics.
- **Provisioned AWS infrastructure using Terraform** including VPC with multi AZ subnets, Internet Gateway, security groups, IAM roles with OIDC/IRSA integration, and EKS cluster with 3-node worker group and EBS CSI driver configuration.

Observability Dashboard

A high-performance React observability platform that delivers real-time monitoring, logging, metrics visualization, and distributed tracing for microservices, enabling teams to troubleshoot swiftly and understand their systems deeply.

Work Experience

Junior Frontend Engineer

[WasteAnt GmbH](#)

August 2024 - Present

Bremen, Germany

- **Scaled** a multi tenant SaaS dashboard (React + Redux Toolkit) to serve **8 enterprise clients**, reducing duplicated dashboard development effort by **7%**.
- **Optimized data handling** for large ML/AI datasets, cutting data load times by **20%** and improving dashboard responsiveness.
- **Built & maintained** a reusable component library, reducing feature delivery time by **15%** and ensuring UI consistency across multiple products.
- Collaborated with designers & backend engineers to integrate **10+ product features**, improving user experience and feature adoption.

Frontend Engineer Intern

[CLIQup](#)

November 2023 - July 2024

Berlin, Germany

- Developed **dynamic forms** with React Hook Form + Zod, improving validation accuracy and reducing form submission errors by **25%**.
- Redesigned key web pages, **increasing user engagement by 30%** and **reducing load times by 25%** through optimized React hooks (useMemo, useCallback).
- Participated in code reviews and QA, catching **15+ bugs** before production release.

Education

M.Sc: Marine Geosciences, Universität Bremen, Germany

2019 - 2024

Bachelor of Science & Technology: Geology, University of Jos, Nigeria

2009 - 2014

Languages

- English: Professional Proficiency
- German: Professional Proficiency

References

Vincent Sortoh

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