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| |  |  | | --- | --- | |  | Martin Kaburu  DEVOPS ENGINEER | CLOUD SOLUTIONS ARCHITECT |  Profile Senior DevOps Engineer |AWS|GCP| Expert with 7+ years of industry experience.  Senior Backend Engineer with 7+ years of experience developing and designing systems in Python, Golang, and TypeScript.  Open-Source Contributor at Kubernetes (Golang). Employment HistorySenior DevOps Engineer, Zepz (WorldRemit | SendWave), JUNE 2023 — MARCH 2025  Upgraded and migrated an old Postgres9 10TB live production database from GCP to AWS RDS Postgres15 without downtime using PostgreSQL's native logical replication through a secure BGP VPN tunnel between the two clouds.  Introduced the ArgoCD App for Apps GitOps release pattern to the team, enabling easier deployments and more streamlined application management for our microservice architecture.  Set up Kubernetes Event-Driven Autoscaling (KEDA) in our clusters and enabled engineers to use custom metrics such as SQS queue lengths and message rates to scale their applications. This led to huge cuts in cloud costs.  Collaborated with the team and auditors to provide requested evidence, patch security issues, and ensure company compliance during our PCI DSS, SOC 2, and Safeguarding audits.  Contributed to several security and safeguarding initiatives—most notably migrating all AWS access to Okta via Terraform and managing all org GitHub and Okta groups in code.  Locked down Kubernetes workloads to use IAM Role for Service Accounts, allowing all org access (both app and employee) to be managed via Terraform on a GitHub repo. Re-organized and modularized our Terraform codebases to enable reusable base modules shared across teams, simplifying cross-team collaboration and infrastructure management.  Implemented external-secrets-operator in our Kubernetes clusters, allowing secure retrieval of secrets from AWS SSM Parameter Store and Secrets Manager. This standardized secret management, eliminated hardcoded credentials, and ensured adherence to least-privilege and auditability best practices. Full-Stack Engineer , Moved, JUNE 2021 — JUNE 2023  I worked part-time for [Moved](www.moved.com)developing, deploying, and maintaining their backend application written in Python Flask and hosted on AWS Elastic Beanstalk.  I took on Database Administrator responsibilities for their RDS PostgreSQL database, optimizing complex SQL queries, implementing indexing strategies, and enhancing overall database performance and reliability.  Pioneered and championed the creation of a new branch of the application—built with a Golang(Gin) backend and React frontend—dedicated to providing admin control to clients. This effort showcased strong autonomy, effective time management, and clear communication throughout the development lifecycle.  Handled various DevOps tasks, including configuring CI/CD pipelines with GitHub Actions and managing infrastructure on AWS Elastic Beanstalk using CloudFormation Infrastructure as Code (IaC).  Led integration efforts with major property management partners across the U.S., including Minardi, Yardi Properties, and AvalonBay. Acted as the primary stakeholder, working extensively with both REST and legacy SOAP APIs—leveraging tools like the Python SOAP client to ensure seamless interoperability and gaining deep expertise in legacy system integration. DevOps Engineer , InnovateEDU (Toptal Client), SEPTEMBER 2021 — MARCH 2022  I joined InnovateEDU for a short-term(6 mo) contract to help them cut down cloud costs for their clients, document their infrastructure in IAC with Terraform for easier adoption by clients, and set up reliable end-to-end CI/CD pipelines for their developers. While at InnovateEDU, I was mostly working with Terraform, GCP, Kubernetes, Bitbucket Pipelines, Helm, and Apache Airflow to mention but a few tools.  The engagement successfully concluded after achieving a 40% reduction in GCP hosting costs and transitioning the entire infrastructure to 100% Infrastructure as Code (IaC) with Terraform. Full-Stack Engineer , Lambda School (Toptal Client), JANUARY 2020 — JULY 2021  I collaborated with the Lambda School admissions engineering team to develop and continuously improve the student intake process using a TypeScript/React front-end and Python/Flask back-end, all hosted on Heroku.  Contributed to building a robust internal admin dashboard in React and TypeScript for admissions staff to manage applications, improving visibility and operational efficiency.  Independently designed and implemented a student onboarding batch workflow using AWS CloudFormation, Lambda, and Step Functions, automating critical processes across Slack, Zoho, Airtable, Okta, and Salesforce.  This automation replaced previously manual workflows, saving hours in student onboarding and millions in operational efficiency for the admissions department. Software Engineering Freelancer , Toptal, DECEMBER 2019 — PRESENT  I provide on-demand DevOps and Backend development services for various Toptal clients as a contractor. Responsibilities include:   * Cloud infrastructure setup and optimization (AWS, GCP, Azure) * Infrastructure as Code (Terraform, CloudFormation, Ansible, Packer, Vagrant) * CI/CD pipeline development (GitHub Actions, CircleCI, Cloud Build etc) * Containerization (Docker, Kubernetes) * API design and development using Golang (Gin, Echo) and Python (Flask, Django) * Database optimization (PostgreSQL, MongoDB) * Integration with third-party platforms (Stripe, Slack, Twilio... e.t.c).  Devops Engineer , Andela, 2018 — OCTOBER 2019  Worked remotely as a Software and DevOps Engineer supporting Andela’s high-traffic VOF platform, contributing to both backend API development and infrastructure reliability. Developed and maintained scalable services using Python (Django) and Golang (Gin), while also contributing to system design and performance improvements.  Managed the Kubernetes infrastructure for multiple environments, implementing autoscaling, observability, and deployment best practices to ensure high availability and performance.  Built and maintained CI/CD pipelines with Jenkins, integrating them with cross-functional development teams to streamline deployments, enforce code quality standards, and accelerate release cycles. EducationComputer Science, Jomo Kenyatta University of Agriculture and Technology , Nairobi 2016 — 2018  Worked on learning basic and advanced Computer Science Fundamentals with Java and C. Open Source ContributionKubernetes , 2019  I contributed to the Kubernetes open-source project as a member of the SIG-CLI (Special Interest Group for the Kubernetes CLI). I actively developed new features, triaged community-reported issues, and submitted bug fixes for kubectl—the primary command-line tool for interacting with Kubernetes clusters. Collaborated with other contributors in the Kubernetes community to maintain code quality and improve user experience. Docker PostgreSQL 2019  I pioneered an extension of the official PostgreSQL Docker image to support initialization of multiple databases and users on container startup. Published the solution to a now-popular open-source repository with ~70 GitHub stars: [docker-postgresql-multiple-databases](https://github.com/MartinKaburu/docker-postgresql-multiple-databases), which is actively used by developers for multi-tenant Postgres setups. |  | Details https://martinkaburu.vip, Nairobi, Kenya +254717217658  [martinkaburu.m@gmail.com](mailto:martinkaburu.m@gmail.com) NATIONALITY Kenyan Links [Linkedin](https://www.linkedin.com/in/martinkaburu)  [Github](https://github.com/MartinKaburu)  [Bitbucket](https://bitbucket.org/MartinKaburu)  [Portfolio](https://martinkaburu.vip) Skills  |  |  | | --- | --- | | DevOps | | |  |  |  |  |  | | --- | --- | | Amazon Web Services | | |  |  |  |  |  | | --- | --- | | Google Cloud Project | | |  |  |  |  |  | | --- | --- | | Linux | | |  |  |  |  |  | | --- | --- | | Kubernetes | | |  |  |  |  |  | | --- | --- | | Terraform | | |  |  |  |  |  | | --- | --- | | CI/CD | | |  |  |  |  |  | | --- | --- | | Bash | | |  |  |  |  |  | | --- | --- | | Python | | |  |  |  |  |  | | --- | --- | | Golang | | |  |  |  |  |  | | --- | --- | | SQL | | |  |  |  |  |  | | --- | --- | | Docker | | |  |  |  |  |  | | --- | --- | | Serverless | | |  |  |  |  |  | | --- | --- | | Cost Reduction | | |  |  |  Languages  |  |  | | --- | --- | | English | | |  |  |  |  |  | | --- | --- | | Swahili | | |  |  |  Hobbies Travelling Sim Racing Hiking Listening to Audio Books |