

Renato Madeira Muiambo

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PROFESSIONAL SUMMARY

Backend & DevOps Engineer specializing in cloud-native infrastructure, robust REST APIs, and secure multi-tenant architectures. Proficient in bridging development and operations with expertise in container orchestration (Kubernetes, Docker), CI/CD automation, and Infrastructure as Code (Terraform, AWS) to accelerate delivery cycles and ensure high availability of systems.

TECHNICAL SKILLS

Languages & Frameworks: Java (Spring Boot), Python (Django), JavaScript (Node.js), SQL

Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, ArgoCD, Kustomize, Ansible, CI/CD, Linux

Databases & Messaging: PostgreSQL, MongoDB, MS SQL Server, MySQL, RabbitMQ

Observability & Architecture: Prometheus, Grafana, Microservices, REST APIs, GitOps, Agile (Scrum)

FEATURED PROJECTS

argocd-k8s | Cloud-Native CI/CD Orchestration

GitHub

Kubernetes, ArgoCD, Kustomize, Docker, Node.js, Prisma, PostgreSQL

- Architected a zero-touch GitOps pipeline, utilizing ArgoCD sync waves to provision foundational infrastructure
- Implemented zero-downtime deployments and auto-healing leveraging Kubernetes ReplicaSets and HPA

Secure Cloud AWS Infrastructure Pipeline

GitHub

Terraform, Ansible, AWS (EC2, S3, DynamoDB, SSM), GitHub OIDC, Docker

- Engineered a Zero-Trust automated infrastructure pipeline, utilizing GitHub OIDC for keyless AWS authentication (no SSH)
- Orchestrated multi-phase provisioning, managing Terraform remote state and dynamic Ansible configuration

SGE (Warehouse Management System) | Full-Stack

Live

Python (Django), Docker, AWS (EC2, S3), Nginx, PostgreSQL

- Developed a cloud-ready logistics backbone, addressing complex inventory tracking across multiple warehouses
- Implemented data integrity mechanisms with atomic database transactions for secure backup restoration

PROFESSIONAL EXPERIENCE

Software Engineer

Feb 2023 – Feb 2025

beeFactory Mozambique

Maputo, Mozambique

- Architected and implemented scalable multi-tenant backend systems using Django and PostgreSQL, optimizing complex queries
- Spearheaded containerization strategy by migrating legacy services to Docker, achieving 100% environment parity
- Engineered zero-downtime CI/CD pipelines utilizing GitHub Actions, enabling multiple daily releases
- Provisioned cloud infrastructure on AWS via Terraform (IaC), reducing infrastructure setup time from days to minutes
- Collaborated in cross-functional Agile (Scrum) teams, driving architectural decisions and optimizing database schemas

University Lecturer in Software Eng. & DevOps

Feb 2023 – Jan 2026

Instituto Superior Dom Bosco

Maputo, Mozambique

- Led technical instruction for 100+ students on modern software architectures, emphasizing *Clean Code*, security, and data modeling (SQL/NoSQL) in Java and Node.js
- Introduced hands-on DevOps and Linux laboratories, enabling students to orchestrate and automate infrastructure using Docker and Terraform
- Simulated industry software development lifecycles (SDLC), rigorously enforcing Git/GitHub version control, *code reviews*, and collaborative CI/CD pipelines

EDUCATION

Universidade Aberta <i>Master of Science in Computer Engineering and Web Technology</i>	Lisbon, Portugal 2024 – Present (Expected: 2027)
Instituto Superior Dom Bosco <i>Bachelor's Degree in Computer Network Systems Administration</i>	Maputo, Mozambique Nov 2022

CERTIFICATIONS & LANGUAGES

- **Certifications:** Mastering Docker: Containers, Networking, and Orchestration – CodeSignal (Mar 2026)
- **Languages:** English (Advanced / Professional), Portuguese (Native)