

# Renato Madeia Muiambo

## Software Engineer

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### PROFESSIONAL SUMMARY

I am a Backend Software Engineer with strong experience in building scalable systems using Java and Spring Boot. I have hands-on experience in the design and development of RESTful APIs, microservices-based architectures, and multitenant systems, with a rigorous focus on performance, scalability, and maintainability. In addition to backend development, I master modern DevOps and cloud infrastructure practices, with experience in using AWS services for application hosting and management. I use tools such as Docker, CI/CD (GitHub Actions) pipelines, Terraform and Ansible, applying Infrastructure as Code (IaC) principles to automate, standardize and scale production environments.

### PROFESSIONAL EXPERIENCE

**University Professor of ICT**, Feb. 2023 – Jan. 2026

**Instituto Superior Dom Bosco, Maputo, Moçambique**

- I taught practical classes in Software Development and IT Infrastructure, focusing on preparing students for modern software engineering roles in the industry.
- I developed and taught technical content covering Java (Spring Boot), Node.js (REST APIs), Angular (frontend), MySQL, SQL Server and MongoDB (NoSQL), applying a full-stack development approach.
- I introduced professional software engineering practices, including Git and GitHub workflows, code versioning, pull requests, and collaborative development.
- I integrated DevOps concepts, including containerization with Docker and infrastructure automation with Terraform, as well as basic systems administration and security principles.
- I promoted software architecture thinking and industry best practices, aligning teaching with the requirements of real engineering environments.

**Software Engineer**, Feb. 2023 – Feb. 2025

**beeFactory Mozambique, Maputo, Moçambique**

- I developed full-stack applications using Django and PostgreSQL, implementing a multi-tenant architecture with secure data isolation per client.
- I worked in agile environments (Scrum), using Git and GitHub for version control, code reviews and issue tracking.
- Containerized applications using Docker, ensuring consistency between development and production environments.
- Implemented CI/CD pipelines and managed the infrastructure on AWS, automating testing and deployment processes to increase efficiency in software delivery.
- I focused on performance, scalability, security, and software engineering best practices throughout the entire development lifecycle.
- I contributed to technical discussions involving systems architecture and database design decisions.

**Pedagogical Internship**, Feb. 2022 – May. 2022

**Instituto Industrial de Maputo, Maputo, Moçambique**

- I taught theoretical-practical classes on the planning and installation of communication devices for students of the Industrial Electricity Technician course (Level 4), focusing on network infrastructure.
- I coordinated practical activities of network assembly and configuration of industrial devices, ensuring the strict application of safety standards and technical protocols.
- I developed detailed technical and evaluation documentation, including the preparation of test folders and performance reports to monitor the academic and technical progress of students.

## EDUCATION

**Master of Science in Computer Engineering and Web Technology**, 2024 – Present

**Open University, Lisbon, Portugal**

- Dissertation Topic: Adoption of Emerging Technologies in the Digital Transformation Process: A Roadmap for the Transition of Companies to Post-Quantum Cryptography in the Context of Quantum Computing
- Specialization: Secure Software Architecture with a Focus on Post-Quantum Cryptography and Digital Transformation

**Bachelor's degree in computer network systems administration**, Nov. 2022

**Instituto Superior Dom Bosco, Maputo, Moçambique**

## ABILITIES

- **Software Development:** Java (Spring Boot), Python (Django), JavaScript (Node.js/Express.js, Angular.js).
- **Cloud & Infrastructure (IaC):** AWS, Terraform, Ansible, and Linux.
- **DevOps & Automação:** Docker, CI/CD (GitHub Actions), Git e GitHub.
- **Databases:** PostgreSQL, MySQL, Microsoft SQL Server and MongoDB.
- **Architecture & Methodologies:** Microservices, Multi-tenant Systems, Event-Driven Architecture (RabbitMQ), RESTful API Design and Agile Development (Scrum).

## LANGUAGES

- Portuguese (Native)
- English (Advanced)

## CERTIFICATIONS

**Mastering Docker: Containers, Networking, and Orchestration**, Mar. 2026

Skills: Containerization, Orchestration, Infrastructure as Code  
Certificate Verification (codesignal.com)