

AILTON BAÚQUE

SOFTWARE ENGINEER • SYSTEMS

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Linux systems administration and software developer with 3+ years of experience in server management, secure deployments, and automation. Experienced with Docker, GitHub Actions, and Ansible for CI/CD and orchestration, with strong proficiency in C#, Golang. Adept at system hardening, patching, and optimization across various environments, with a continuous focus on reliability and security.

- I am continually enhancing my skills in Linux and infrastructure management.
- Outside of work, I enjoy reading, running, and exploring Maputo City.

Experience

Software Developer

SEPTEMBER 2025 – PRESENT

Abstract Build E.I, Maputo

Working on the SiMiC web version, focusing on the portal, as part of the team migrating the desktop application to the web.

- Started part-time and remote in September 2025.
- Transitioned to full-time, onsite in October 2025.
- Build and maintain the SiMiC portal using .NET.
- Collaborate on the web migration of the legacy desktop application.
- Contribute across the stack as needed beyond the portal scope.

Software Developer & Linux System administrator

JUNE 2024 – MARCH 2024

WOZABITCOIN, Maputo

I worked with a team of developers on the Wozabitcoin platform, focusing on backend development, infrastructure automation, and secure system administration.

- Developed and maintained platform features, integrating fiat (M-Pesa, EMola) and cryptocurrency payments (Bitcoin).
- Administered and secured Ubuntu-based VPS infrastructure with Fail2ban, Knockd, and IPTables.
- Automated deployments and monitoring using GitHub Actions, Ansible, and Bash, integrating Telegram and email alerts.
- Configured and optimized Nginx for performance and security, and implemented SAST using SonarQube.
- Administered Postfix and Dovecot mail servers via iRedMail, implementing DMARC/SPF/DKIM protocols for secure email deliverability.

Software Developer (C#, ASP.NET)

FEBRUARY 2024 – JUNE 2024

Mussika, Maputo

Maintained and debugged software, developed REST APIs, and created web pages using WordPress, while also working on project planning and bids for service contracts.

- Designed and developed REST APIs using C# and ASP.NET.
- Created project plans and budgets for service contracts, applying for bids and managing the proposal process.
- Developed and maintained web pages using WordPress.

Security Engineer, Part-time

2023 – 2024

ATHSec, Maputo

Performed security assessments to evaluate the company's compliance with posture requirements, leveraging Cloudflare and Microsoft solutions, and implementing Zero Trust Network (ZTN) strategies.

- Reviewed reported vulnerabilities and coordinated recommended patching or configuration updates.
- Designed and executed comprehensive security strategies, and reviewed and enforced security policies.
- Spearheaded the adoption of Zero Trust principles, enhancing network security.
- Assessed security posture and ensured alignment with industry standards and best practices.

Web Developer (PHP/Laravel), Internship

OCTOBER 2021 – DECEMBER 2021

ZNSystems, Maputo

Worked on enhancing a digital banking system with a focus on front-end development using Laravel/PHP. Designed and implemented user interfaces using Blade and Bootstrap, while improving the system's functionality, usability, and overall aesthetics.

Education

Bachelor's degree in Software Development

2020–PRESENT

University of Saint Thomas of Mozambique, Maputo

A 4-year program that provided a comprehensive education in software development, focusing on programming, software engineering, and systems management.

Courses

Services, Micro-Services & DevOps, ICT4Dev - WinterSchool

JULY 2024

University Eduardo Mondlane, Maputo

Data Mining, ICT4Dev - WinterSchool

JULY 2023

University Eduardo Mondlane, Maputo

Python Programming, ICT4Dev - WinterSchool

JULY 2023

University Eduardo Mondlane, Maputo

Computer Security, ICT4Dev - SummerSchool

FEBRUARY 2023

University Eduardo Mondlane, Maputo

Cloud Fundamentals, Administration and Solution Architect

OCTOBER 2022

FIAP, Online

Electronics and Arduino Programming

NOVEMBER 2021 – DECEMBER 2021

TME Education, Maputo

Web Development

OCTOBER 2021 – DECEMBER 2021

University of Saint Thomas of Mozambique, Maputo

Java Object-Oriented Programming Course

MARCH 2021 – JUNE 2021

University of Saint Thomas of Mozambique, Maputo

Skills

- Linux/UNIX systems administration and hardening
- Scripted automation and orchestration (Bash, Ansible)
- CI/CD and monitoring (GitHub Actions, alerting)
- Email systems (Postfix/iRedMail, SMTP, DNS)
- Web and proxy server setup and administration (Nginx)
- System software design and development
- Cybersecurity auditing and testing
- Terminal user interface (TUI) development
- On-prem systems administration

Languages

- Portuguese (Native)
- English (spoken and written)
- Changana (spoken)
- Chope (spoken)

Keywords

Linux • Ubuntu • Debian • Kubernetes (k3s) • Containers (Docker, LXC) • Virtual Machines • VMWare • Virtual Box • Arduino • UNIX • Solaris • FreeBSD • Terminal (TUI) • Command Line (CLI) • Secure Shell (SSH) • File Systems (SAN/NAS) • TCP/IP • UDP • HTTP • SMTP • IMAP • POP3 • Postfix • iRedMail • LDAP • Samba • SFTP • DNS • TLS • Apache • Nginx • Traefik • Java • C# • Python • Bash • POSIX Shell • Expect (TCL) • HTML • CSS • JavaScript • Websockets • NodeJS • SQL • PostgreSQL • Redis • UML • YAML • JSON • XML • TOML • Markdown • Pandoc • Latex • REST • curl • nmap • Vim/Vi • VSCode • TMUX • screen • Lynx • w3m • Git • GitHub • GitLab • Gitea • AWS • IRC • Slack • Discord • YouTube • Twitter