Amohelang **Thoabala**

FOUNDER SOFTWARE DEVELOPER

Borokhoaneng, Maseru, Lesotho

(+266) 62552155 | amohelangt@gmail.com | https://amohelangthoabala.github.io/ | amohelangthoabala | amohelang-thoabala

"Be the change that you want to see in the world."

Technology entrepreneur and Full Stack Engineer, founder of VENTIQ, with experience designing, building, and operating production software platforms. Specialises in full-stack application development, digital commerce, organisational information systems, and practical AI implementation. Experienced in Laravel, React, TypeScript, payment and messaging integrations, locally hosted AI (Whisper, Ollama, RAG), database architecture, and secure Linux infrastructure. Combines hands-on engineering with product strategy, systems thinking, and the delivery of technology solutions that address real-world business and institutional challenges.

Technical Skills

Languages	PHP, TypeScript, JavaScript, C#, SQL, Bash, Java, C++
Back-end	Laravel 12, ASP.NET Core, REST APIs, queues and background jobs, authentication and RBAC (Sanctum, OAuth2, JWT), multi-tenant architecture
Front-end	React, Inertia.js, Tailwind CSS, shadcn/ui, Redux Toolkit, Angular, Ant Design, Material UI
Mobile	React Native (TypeScript), Android
AI & Data	Local LLMs (Ollama), speech-to-text (Whisper), embeddings and RAG, prompt design, MariaDB/MySQL, PostgreSQL, schema design, query optimisation
DevOps	Linux (Ubuntu), nginx, PHP-FPM, systemd, cron, deployment automation, security hardening and audits, load testing, GitHub Actions, Docker, AWS EC2, Tailscale
Integrations	Mobile money payments (EcoCash, M-Pesa via PayLesotho), WhatsApp Cloud API, transactional email, accounting APIs
Practices	Automated testing (Pest), Git, pull requests and code review, Agile/Scrum, Jira, Postman, Swagger/OpenAPI

Work Experience

VENTIQ

Maseru, Lesotho

Founder & Lead Full Stack Engineer — *Oct 2024 – Present*

- Founded and built VENTIQ, a multi-tenant SaaS platform with two products: **VENTIQ Events** (ticketing, payments and admission) and **VENTIQ Sessions** (AI-assisted meeting minutes, attendance registers and organisational records), piloted with international organisations in Lesotho.
- Built end-to-end event ticketing: registration, EcoCash and M-Pesa payments via PayLesotho with verification and reconciliation, QR tickets, a React Native (TypeScript) scanner app for admission, WhatsApp and email notifications, and automated invoicing into accounting software.
- Designed VENTIQ Sessions: live meeting capture across laptop and phone with real-time sync, recording, self check-in with digital signatures, attendance registers, action-point tracking, certificates, and minutes that carry forward corrections from the previous meeting.
- Built a privacy-first local AI pipeline: meeting audio transcribed with Whisper and summarised with locally hosted LLMs (Ollama) on dedicated hardware in Lesotho, connected to the cloud platform over a private network; minutes ready within 3–5 minutes of a two-hour meeting, with long discussions processed in parts so nothing is lost.
- Implemented organisational memory search with embeddings and retrieval-augmented generation (RAG), letting users ask questions across their own meeting history.
- Migrated the platform from Blade/Alpine/Filament to Laravel 12 with Inertia.js, React and TypeScript; designed the relational schema, role-based access control, organisation-scoped data isolation and usage-based billing; covered by 500+ automated tests (Pest).
- Ran production operations on Linux: automated deployment with rollback, systemd services and scheduled jobs, nginx and PHP hardening, automated dependency security audits and CI builds; load-tested the platform (1,200 check-ins a minute on a single core) and built capacity monitoring to plan infrastructure growth.
- Led product strategy, pricing and packaging, pilots and customer engagement from requirements through deployment and commercialisation.

InfoDocs

Remote, South Africa

Mid-Senior Full Stack Developer (Part-Time) — *Mar 2024 – Jul 2024*

- Built a Share Options module in Laravel end to end, from relational schema design to backend services and business logic.
- Refactored legacy APIs, improving performance, maintainability and authentication security.
- Defined API contracts with the Angular team and integrated new frontend features against them.
- Delivered in remote Agile sprints using Git branching workflows, pull requests and peer code reviews.

ICAP – Columbia University

Lesotho

Health Information Officer (Systems & Technical Support) — *Aug 2022 – Sep 2024*

- Supported national health information systems, including DHIS2, OpenMRS and eRegister, across multiple healthcare facilities.
- Safeguarded data integrity across distributed systems through SQL validation, database reconciliation and troubleshooting.
- Maintained Linux servers and automated routine administration with shell scripts and cron jobs.
- Trained and supported healthcare staff, improving adoption and effective use of digital health systems.

Chaperone Ltd

Maseru, Lesotho

Full Stack Software Developer

May 2021 – Sep 2022

- Developed full stack applications with React and Ant Design on C# .NET Core backend services.
- Built reusable frontend components and managed application state with Redux Toolkit and TypeScript.
- Developed and documented secure REST APIs using OAuth2 authentication and Swagger.
- Designed relational database schemas and backend services following clean architecture principles.
- Built Android applications integrated with the backend APIs.
- Worked in an Agile team using Git, pull requests and Jira.

Tile Expert

Remote

Junior Software Developer

Oct 2021

- Migrated legacy HTML functionality to React, with state management in Redux and modern JavaScript.
- Set up Docker-based development environments and worked through Git workflows.

National University of Lesotho

Roma, Maseru

Student Internship / Laboratory Assistant

Aug 2016 – May 2018

- Provided technical support in the university's computer laboratories.
- Tutored students in C, C++ and Java, guiding them through debugging, algorithm design and problem solving.

Education

National University of Lesotho

Roma, Maseru

B.Sc. in Computer Science

May 2020

- Coursework: Software Engineering, Data Structures & Algorithms, Database Systems, Operating Systems and Computer Networks.

Certifications

Alison (CPD Accredited)

Online

Google Cloud Computing Foundations

May 2023

- Cloud infrastructure fundamentals: compute, networking, storage and security.