

MOKHACHANE MOSHOESHOE

Full-Stack & Product Engineer | AI Integration | React, TypeScript, Node.js, Firebase
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PROFILE

Full-stack and product engineer who ships production web and mobile software end to end. Designed and built Mosebetsi, a live iOS task marketplace, single-handedly across 39 development phases, spanning five role-based dashboards, payments, and real-time systems. Recently designed and deployed a production AI assistant with prompt-injection resistance and lead capture. Backed by a BSc in Data Science that grounds how I build and measure systems. Available immediately for full-stack, product, and platform roles, remote or hybrid.

TECHNICAL SKILLS

Frontend & Mobile: React, React Native (Expo), TypeScript, JavaScript, Tailwind CSS, HTML, CSS, responsive UI
Backend & Cloud: Node.js, Firebase (Auth, Firestore, Cloud Functions, Storage, Hosting), serverless functions, REST APIs, webhooks
AI Integration: Large Language Model (LLM) API integration, Anthropic Claude API, retrieval grounding, prompt engineering, guardrails and cost control
Data & Analytics: Python (Pandas, NumPy, scikit-learn), SQL, R, machine learning, data visualisation, Looker Studio
Ships With: Git, GitHub, continuous deployment, Netlify, Firebase Hosting, Expo, payment integration, technical SEO

EXPERIENCE

- Product Lead & Lead Developer** | Mosebetsi

Jan 2025 – Present

A task marketplace connecting clients with local service providers, [live on iOS and web](#). Android in progress.
 - Designed and shipped a full-stack marketplace across iOS, web, and backend end to end across 39 development phases, using React Native, React, Firebase, and Node.js Cloud Functions.
 - Built five role-based dashboards with identity verification, real-time task management, messaging, and admin operations serving clients and service providers.
 - Designed and implemented an automated payment and payout system, replacing a manual process with an event-driven task state machine and dispute handling for reliability.
 - Audited and hardened database security rules after finding a role-based access gap in testing, closing every access edge case across five user roles and adding a regression checklist.
 - Shipped to the Apple App Store and ran the full delivery lifecycle solo: architecture, development, testing, deployment, and release.
- Lead Developer, Web & AI** | Mo'Websites

Feb 2025 – Present

An independent studio building websites and systems for small businesses, [mowebistes.co.za](#).
 - Designed, built, and shipped a production AI assistant (Anthropic Claude API, Netlify serverless functions) that answers from site content, resists prompt injection, enforces cost caps, and captures qualified leads into a live pipeline. Read more at [mokhachane.dev](#).
 - Built and deployed [Citrus Aura](#), a live e-commerce store with a categorised catalogue, cart, and automated order flow (React, Next.js, Tailwind, Netlify).
 - Delivered a live analytics dashboard and per-promoter referral tracking in Looker Studio for a client, replacing manual reporting with real-time attribution.
 - Migrated the studio site to Git-based continuous deployment and implemented technical SEO, structured data, and Google Business Profile setup for local search visibility.
- IT Student Support Assistant** | Central University of Technology

Mar 2021 – Mar 2022

- Resolved a high volume of student portal and account issues, and enforced lab safety protocols that cut incidents by 15%.
- Property Manager** | Siblings Habitat (Pty) Ltd

Jan 2017 – Dec 2019

- Managed maintenance and contractors for 50+ residents, improving tenant satisfaction by 20%.

SELECTED DATA SCIENCE PROJECTS

Academic projects, Eduvos BSc: a Twitter/X bot-detection classifier and a customer churn prediction model (Python, scikit-learn); an interactive graduate-employment dashboard (R, Shiny); and a sovereign-debt analysis submitted to the 2025 10Alytics Global Data Hackathon, reviewed among 217 submissions from 2,282 participants across 51 countries. github.com/M-Moshoeshoe

EDUCATION

BSc Data Science · Eduvos	2025 · NQF 7
Diploma in Information Technology: Software Development · Central University of Technology	2021 · NQF 6

CERTIFICATIONS

- BCG Data Science Job Simulation, Forage (2025)
- Deloitte Virtual Data Analytics Internship, Forage (2025)
- Managing Knowledge and Innovation, Eduvos (2025)