Christiaan Botha

Software engineering student · CTO at Clidash · Stellenbosch, Western Cape

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Scan for portfolio

SKILLS

Languages

TypeScript · JavaScript · Dart · Java · SQL

Web

React · Next.js · Vite · Tailwind CSS · Ant Design · PWAs · SEO & pre-rendering · Image optimisation

Mobile

Flutter · Riverpod · go_router · App Store & Play publishing

Backend & cloud

Node.js · Firebase · Cloud Functions · Cloud Run · Micro-services · REST & JWT auth · PostgreSQL · SQLite · GitHub Actions · Vercel · AWS

Infrastructure & networking

Proxmox · Kubernetes · Docker · Linux · Windows Server · Tailscale VPN · MikroTik routing & firewall · Cisco network security · Cloudflare DNS · RAID & server hardware

Hardware & IoT

ESP32 · LoRa · Raspberry Pi · Environmental sensors · Solar & battery power · Field installation

Security & practice

Authentication & access control · Secrets management · Secure SDLC · Agile · UML · Git flow · CI/CD

Leadership

Team lead (6) · Project management · UI/UX design · Technical planning · Client communication

EDUCATION

BSc IT Software Engineering
Eduvos · 2024 – 2026 · third year
Passed first year with an 80.25% average. Final-year project: an offline-first LoRa sensor network for vineyards.

Matric
DF Malan High School · 75.4% average
Mathematics, Physical Science, Afrikaans HL, English FAL, CAT, EGD. Tutored Physical Science.

Languages
Afrikaans (home language), English

PROFILE

Third-year BSc IT Software Engineering student and CTO at Clidash, an AI-powered CRM for South African financial advisors. I build products end to end: leading teams, designing the interface, shipping web and mobile apps, and running the infrastructure they depend on. Led the six-person team that won the 2025 Eduvos HackJam. I hold myself to a high standard of punctuality and professionalism, and take pride in what I ship.

EXPERIENCE

CTO · Clidash (Pty) Ltd — 2026 – present
Multi-tenant AI CRM for financial advisory firms · Flutter, Firebase, Cloud Functions, Cloud Run

- Own integrations, scalability and technical planning; reworked the app's modularity, security and access control.
- Built the QuicklySign e-signature integration and the mailing services on Cloud Functions and Cloud Run.
- Designed and built the internal dashboard from scratch and led the component-driven rework of the CRM.

Founder & Developer · T1 Software Solutions — 2023 – 2026
Own products and client work · t1software.co.za

- Designed, built and published **Amber Textbooks**, a second-hand textbook marketplace, on the App Store and Google Play (Flutter, Firebase). Grew to 100 users across 15 campuses before retiring it in 2025.

SELECTED PROJECTS

HIVE · Eduvos HackJam 2025, 1st place · team lead, PM & UI/UX
Innovation-management PWA where students pitch, vote on and comment on campus ideas; a local AI model refines vague ideas into actionable plans, with badges for engagement. React and Ant Design, micro-service backend, JWT auth, PostgreSQL. Led six people through 191 commits on 49 branches in seven weeks.

LoRa Vineyard Sensor · final-year project · co-lead, architecture & hardware
Offline-first LoRa sensor network that flags powdery and downy mildew risk from temperature, humidity and dew point. Solar-powered Heltec ESP32-S3 nodes in weatherproof enclosures report to a Raspberry Pi running SQLite, a rule-based prediction tree and a locally hosted PWA. Co-led with a viticulturist.

GrowPack · growpack.co.za · design, development & deployment
Static product catalogue for an agricultural supplier, built for slow rural connections: React 19 and Vite, a Sharp pipeline producing three WebP sizes per photo, ~142 pre-rendered pages with share images and a sitemap, PWA on Vercel.

GrowPack Admin · architecture & development
Flutter Web dashboard on Firebase for the client to edit the catalogue. Cloud Functions watermark and thumbnail uploads; one Publish button commits data and images to GitHub in a single atomic commit that redeploys the site on Vercel.

Home Lab · design, build & operations
Two-node Proxmox lab on an HP ProLiant DL380 G7 (2× Xeon, 144 GB RAM, RAID) and a Dell PowerEdge R220 running Kubernetes. Reachable only over Tailscale via a Mac mini M4 gateway behind a MikroTik router; hosts Jellyfin, Immich, game servers, Beszel monitoring and a Homepage dashboard.