

MALLE Valery Mosima

Founder, CEO & Lead Software Architect — BlingsEdu Group

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PROFESSIONAL SUMMARY

Senior full-stack software engineer, education-technology founder and 13+ year Computer Science / ICT educator. Founder of BlingsEdu Group — the only Cameroonian school OS that simultaneously serves the Anglophone (MINESEC) and Francophone (MINEDUB) subsystems with full offline marks entry, MINESEC-compliant report cards, transcripts, GCE mock analysis, payroll, AI advisory, fees, parent engagement and forensic finance.

Personally designed and shipped **8 production education-software products, 12 live professional websites and 5 desktop applications**. Flagship desktop product *Timetable ES Pro by Malle VM* is used by **500+ schools**. Long-serving Cameroon GCE Board Examiner (Paper 0595) and Practical Supervisor for Computer Science & ICT.

Open to **remote senior / lead engineering roles**, technical co-founder partnerships and ed-tech advisory work worldwide.

CORE TECHNICAL STACK

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|---------------------|----------------------|----------------------------------|
| TypeScript (Senior) | JavaScript / Node.js | Python (Senior) |
| Go (Senior) | React 19 | TanStack Start / Router |
| PostgreSQL | MongoDB | Electron |
| Vite / Webpack | Cloudflare Workers | IndexedDB |
| Tailwind CSS | REST / Edge APIs | Constraint scheduling (FET port) |
| SQL + RLS hardening | CI/CD | Linux / Git |
| System design | | |

FLAGSHIP IMPACT — BLINGSEDU

BlingsEdu solves what every Cameroonian school has lived with for decades: paper marks lost in transit, illegal report cards, double-subsystem complexity, no offline capability when MTN/Orange drops, no MINESEC code traceability, fee-collection corruption, no parent visibility and no AI-assisted school finance. The platform handles **500+ schools, ~50,000 teachers, hundreds of thousands of learners** across both subsystems with a single sovereign Cameroon-hosted stack. It is the only system in Cameroon that **elevates** — not merely digitizes — the educational sector.

PROFESSIONAL EXPERIENCE

Founder & CEO · Lead Software Architect — BlingsEdu Group

2022 — Present · Cameroon

- Architected and shipped the full BlingsEdu School OS on TanStack Start v1 + React 19 + PostgreSQL with strict RLS, edge deployment on Cloudflare Workers, and a service-worker-free IndexedDB offline pipeline for marks entry and trusted-device login.
- Built *Timetable ES Pro by Malle VM* — a desktop constraint-scheduling engine (Electron + TypeScript, FET algorithm ported from C++) used by 500+ schools at start-of-year.
- Delivered 8 education products: BlingsEdu Pro School OS, BlingsMock Analysis Suite, Bling AI Academic Assistant, Sovereign CV Studio, Photo & ID Card Console, Special Entry Portal with QR anti-fraud, Transcript Engine International, and Timetable ES Pro.

- Designed the dual-subsystem Subject Registry covering every MINESEC O-Level / A-Level code and every Francophone série (A1–A5, ABI, C, D, E, TI, S1–S5, F1–F4, G1–G3) — the only system in Cameroon with full coverage.
- Implemented adaptive surge-control backpressure handling 500 schools / 50k teachers writing marks concurrently with graceful degradation to IndexedDB.

Senior Freelance Full-Stack Engineer — Independent Consulting

2023 — Present · Remote

- Deliver low-bandwidth-first web systems, desktop tools, AI workflows and data pipelines using TypeScript, Python, Go, PostgreSQL and MongoDB for schools, SMEs and digital clients.

Examiner (Paper 0595) & Practical Supervisor — Computer Science / ICT — Cameroon GCE Board

2017 — Present · Cameroon

- Long-serving examiner: marking, moderation, quality review and candidate-performance interpretation alongside the Regional Pedagogic Inspectorate.
- Supervise practical examination sessions ensuring discipline, equipment readiness and faithful execution of official procedures.

Part-Time Lecturer — Software Engineering — Harvard University, Yaoundé

2021 · Yaoundé

- Taught Software Engineering, bridging academic principles with production engineering discipline.

Computer Science / ICT Teacher & Head of Department — IBAY · ECCAST · Tsimi Evouna · Bista Bilingual

2015 — 2021 · Yaoundé

- Full-time and part-time CS/ICT teaching plus HOD coordination — theory, projects and practical coaching across Forms 1–Upper Sixth.
- Authored *Competency in CS Laboratory Manual (Forms 1–3)*, *CS 0595 Project Lab Manual* and the *Simplified-Approach ICT 0796 A-Level Textbook* used by ICT teachers across Cameroon.

Trainer — Maintenance, Motherboard Diagnosis & Database Management — High-Tech International, Kumba

2012 — 2014 · Kumba

- Combined theory with hands-on hardware troubleshooting practice for beginners.

EDUCATION & CERTIFICATIONS

- M.Sc. Software Engineering — Ontario University, Canada (Distance Education)
- B.Sc. Computer Networking — University of Bamenda
- B.Sc. Biochemistry — University of Yaoundé I
- Cameroon GCE A-Level (5 papers, Sciences) · O-Level (10 papers, Sciences)
- Author — three published CS/ICT textbooks and laboratory manuals (Cameroon GCE preparation)

LANGUAGES

English (Native) · French (Strong working proficiency) · Pidgin (Native)

REFERENCES

- Mme Ebode Elizabeth — Regional Pedagogic Inspector, CS, Yaoundé · Chief Examiner — +237 674 632 74
 - Mr Tanyi Nelson — Regional Pedagogic Inspector, CS, Yaoundé — +237 674 789 198
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