Habeeb Dindi

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Education

African Leadership University — Kigali, Rwanda
BSc. (Hons) Software Engineering, Low-Level Programming Specialisation — *Sept 2024 – Jul 2027*

- **Specialisation coursework**: C Programming, DSA, Linux Programming, Blockchain Development

African Leadership Xcelerator — Nairobi, Kenya
Certificate in Software Engineering — *June 2022 – March 2024*

- **Relevant Coursework**: *Low-level programming and Algorithms*: C, DSA, Linux and Unix Systems — *Higher-level programming*: Python, JavaScript, MySQL — *Systems engineering and DevOps*: Bash, Scripting, Networking, Security, CI/CD — *Backend Web Development Specialisation*

Experience

Backend Engineer — June 2026 – Feb. 2027
SB Conseil — *Remote, France*

- Building the backend for **Baho Coffee**, an offline-first platform for managing large scale coffee production accross SMEs
- Built the bidirectional offline sync engine (WatermelonDB protocol) behind field data capture in low-connectivity areas
- Shipped the client-mandated Docker-free deploy path (systemd units + provisioner behind an Angie proxy) and documentation
- Modelled the geospatial farm registry and lot tracking including PostGIS polygon/point storage with GeoJSON round-tripping through the sync layer

Software Engineer — Mar. 2025 – Present
Enligne LTD — *Kigali, Rwanda*

- Built a **multi-vendor delivery platform** (Node.js, TypeScript, PostgreSQL) processing 200+ orders
- Designed an async **job pipeline** (BullMQ + Redis) for webhooks, merchant payouts & notifications
- Built a fault-tolerant **payment layer** using idempotency keys and OCC, eliminating status drift on failed webhook delivery
- Implemented **multi-provider auth** (SSO) with RBAC across 4 roles and shipped CI/CD via Docker & GitHub Actions

Software Engineer — Aug. 2024 – Sept 2025
Alpha Next Tech — *Remote, UAE*

- Built and deployed **backend systems** and agent-based automation for AI applications on self-managed VPS infrastructure
- Implemented programmatic sales workflows replacing manual processes
- Designed and implemented back-end systems and architectures for AI-based applications.

Projects

Marmar | *Node.js, Express, PostgreSQL, Azure OpenAI* — May. 2024 – Present

- Architected a **multi-tenant clinical decision support** API serving AI-generated medication assessments
- Built an **event-driven assessment pipeline** using **BullMQ + Redis** for long-running LLM jobs and retries
- Implemented **FHIR-compliant** data exchange (HL7 bundles) for EMR interoperability
- Integrated **ElevenLabs ConvAI** for voice-first clinical interactions over WhatsApp, feeding into patient history aggregation

Systems Coursework

Bytecode Interpreter | *C*

- Interpreter for the Monty 0.98 bytecode format; opcode dispatch via a **function-pointer table** rather than branching chains
- Single linked list backing both LIFO (stack) and FIFO (queue) execution modes, switchable at runtime

Unix Shell | *C*

- Implemented `fork/execve/wait` process execution, PATH resolution, environment handling, and builtins
- Refactored global state into a passed-around state struct to make the execution path re-entrant

Technical Skills

Languages: C, C++, SQL, Python, TypeScript/JavaScript, Bash
Systems: Linux/Unix internals, system calls, processes & signals, sockets, x86 assembly, gdb, strace, valgrind
Developer Tools: Git, GitHub, AWS, Docker, Postman, Ubuntu
Databases: MySQL, PostgreSQL, MongoDB, Redis