

Ghassan Gaidi

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Available for internships, part-time & contract engagements (20-30 h/wk) immediately; full-time from June 2027.

SUMMARY

Final-year ICT student (graduating June 2027) building backend and security software in Rust, Python and TypeScript. Four deployed projects, SDKs published to npm and PyPI, 38 API endpoints across 24 routes, 5/5 lemmas proven in CI, multiple verified high-severity HackerOne reports. Seeking remote junior software engineering roles; open to relocation.

TECHNICAL SKILLS

Languages and tools: Rust, Python, TypeScript, JavaScript, SQL, Git, GitHub Actions (CI), Linux, systemd
Backend and web: REST APIs (OpenAPI), Next.js, Node.js, Flask, Supabase, PostgreSQL (pgvector), OAuth, webhooks
Security: Applied cryptography (X25519, ML-KEM, ML-DSA, ChaCha20-Poly1305), formal modeling (Tamarin), threat modeling, vulnerability research

PROJECTS

- Null** | Rust | ghassan-gaidi.github.io/Null | github.com/ghassan-gaidi/Null
- Designed and built a serverless post-quantum terminal messenger in a multi-crate Rust workspace: Triple-DH plus ML-KEM-1024 handshake, per-message X25519 ratchet with periodic ML-KEM re-encapsulation, ChaCha20-Poly1305, deniable by default with opt-in ML-DSA-65 authentication.
 - Implemented metadata resistance: fixed 2048-byte frames with traffic shaping and cover traffic over Tor, I2P and Nym with Snowflake, WebTunnel and obfs4 bridges, plus RAM-only operation with mlock and panic wipe.
 - Formally verified the handshake in Tamarin (secrecy, KCI resistance, authentication; 5/5 lemmas proven in CI). Backed the rest with 124 tests, fuzzing of wire decoders, known-answer vectors and reproducible builds.
- Neura** | TypeScript, Python | neura-blond.vercel.app | github.com/ghassan-gaidi/neura
- Built a managed API for AI agent memory on Next.js 16 and Supabase pgvector: 38 API endpoints across 24 routes for semantic search (HNSW cosine index, Voyage AI embeddings with Gemini fallback), key-value state, batch ops and sharing.
 - Published TypeScript and Python SDKs (v0.3.0) to npm and PyPI. Implemented SHA-256 hashed API keys, usage-based credit metering, HMAC-signed webhooks with retries, and USDC payments on Base via x402.
- drops.codes** | Next.js, Supabase | dropscodes.vercel.app | github.com/ghassan-gaidi/drops.codes
- Built and deployed a file-sharing SaaS on Next.js 16 and Supabase with Backblaze B2 storage, GitHub and Google OAuth, password-protected expiring links, QR codes and view tracking.
 - Shipped 12+ in-browser file viewers, a public REST API (8 endpoints, OpenAPI docs), team workspaces and live subscription billing through Dodo Payments.
- Dominion** | Python, Flask | crypto-empire-ten.vercel.app | github.com/ghassan-gaidi/crypto-empire
- Built a Flask crypto intelligence platform with 54 public REST routes: market data, multi-chain gas, whale tracking, wallet checks and portfolio P&L, sourced from CoinGecko, DeFiLlama and Ethereum RPCs.
 - Shipped a Telegram bot with 52 command aliases + 72 symbol shortcuts (webhook and polling, systemd) with Polar.sh subscription billing and webhook verification, plus five GitHub Actions workflows and a server-rendered design system.

EDUCATION

Bachelor's Degree (Licence) in Information and Communication Technology — Expected June 2027
Université de Carthage, Faculté des Sciences de Bizerte

LANGUAGES AND INTERESTS

Languages: Arabic (fluent) | French (conversational) | English (C1 IELTS)
Interests: Chess | Art and technology | Digital sovereignty | Human-AI collaboration