

Yousof Selim

Software Engineering Student | Backend Development

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Full-time internship: 25 Jan - 23 Apr 2027

PROFILE

Software Engineering student focused on APIs, data integrity and authorization. I build transaction-safe workflows and background jobs, then test retries, conflicting writes and access boundaries.

EDUCATION

Sunway University | Bachelor of Software Engineering (Honours) Expected Aug 2027
Dual-award programme in partnership with Lancaster University

TECHNICAL SKILLS

Programming: TypeScript, JavaScript, SQL, Dart; Python and Java (working knowledge)
Backend and data: Node.js, NestJS, PostgreSQL, Supabase, Firebase, Drizzle, REST APIs
Testing and tools: Vitest, pgTAP, Firebase Emulator Suite, Git, GitHub Actions
Spoken languages: English (fluent), Arabic (native)

SELECTED PROJECTS

WayClub | Group management platform Aug 2026 - Present
Next.js, NestJS, PostgreSQL | Local implementation; public showcase

- Enforced tenant boundaries and approval permissions with PostgreSQL row-level security, composite foreign keys and version checks for stale updates.
- Fixed audit-chain ordering under concurrent writes by allocating positions inside per-account advisory locks and verifying hashes across overlapping transactions.

Bupples | Shared expense app Feb 2026 - Present
Sole developer | Flutter, Firebase, TypeScript | Released on iOS and Android

- Built server-authoritative receipt and settlement flows using exact integer arithmetic, transactional idempotency and money-conservation checks to preserve per-currency balances.

CareerOS | Career profile and publishing platform Oct 2026 - Present
Next.js, TypeScript, PostgreSQL, Drizzle | Private Google Cloud pilot

- Implemented a PostgreSQL job queue with SKIP LOCKED claims, heartbeat leases, bounded retries and dead-letter handling for background work.
- Verified GitHub webhook signatures and committed event deduplication with queue insertion in one transaction; required human approval before publishing career claims.

Hackfam | Event teammate platform Oct 2026 - Present
Supabase, PostgreSQL, Deno, pgTAP | Backend and app interfaces in development

- Developing event-based matching and team workflows with PostgreSQL authorization, a shared Dart/TypeScript contract and concurrency checks for mutual matches and last-slot admission.

LEADERSHIP

Sunway Cybersecurity Club | Digital Marketing Executive Jan 2026 - Present

- Coordinate event and recruitment content with committee members, translating briefs into graphics, LinkedIn posts and communications for cybersecurity meetups and industry visits.