

Yousof Selim

Software Engineering Student | QA and Test Automation

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Full-time internship: 25 Jan - 23 Apr 2027

PROFILE

Software Engineering student focused on making failures reproducible and preventing regressions. I build checks around financial invariants, browser rendering and backend concurrency, then connect results to the underlying defect.

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 (working knowledge)

Testing: Playwright, Vitest, pgTAP, Deno tests, Firebase Emulator Suite

Methods and tools: Regression, property-based, API and concurrency testing; GitHub Actions

Spoken languages: English (fluent), Arabic (native)

SELECTED PROJECTS

Photoshoot | Photo booth for Windows and web

Jun 2026 - Present

TypeScript, Electron, WebGL2, MediaPipe | Windows v1.3.0 released

- Diagnosed and fixed a Windows black-viewfinder defect caused by a canvas setting under D3D11/ANGLE; added Playwright checks of rendered and captured pixels.
- Added Linux and Windows CI checks covering the packaged Electron app, camera recovery and GPU rendering before publishing Windows v1.3.0.

Bupples | Shared expense app

Feb 2026 - Present

Sole developer | Flutter, Firebase, TypeScript | Released on iOS and Android

- Tested exact expense allocation with money-conservation properties and deterministic fixtures; used backend and security-rule checks around receipt finalization and settlement authorization.

CodeAtlas | Change analysis and evidence CLI

Jul 2026 - Present

TypeScript, Node.js, Vitest | Local implementation for trusted code

- Built differential base/head test runs that reproduce a seeded expired-session regression from HTTP 401 to 500 and retain revision-linked evidence.
- Added integrity checks to replay, rejecting altered artifacts or mismatched snapshots before execution and reporting incomplete evidence as unverified.

Hackfam | Event teammate platform

Oct 2026 - Present

Supabase, PostgreSQL, Deno, pgTAP | Backend and app interfaces in development

- Added PostgreSQL concurrency tests for mutual matches, message retries and last-slot admission, plus regression checks that fail when broken behavior is restored.

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.