

Yusuf Naeem Abd El-Hakim

Backend Software Engineer — Full-Stack · AI/LLM Integration · DevOps

Egypt (open to remote / relocation) · +20 102 090 0480 · yusuf@binhakim.dev · binhakim.dev · github.com/ws0x · linkedin.com/in/binhakim

SUMMARY

Backend-leaning software engineer who builds and ships production systems end to end — REST APIs and data models (Java/Spring Boot, Node.js, PostgreSQL/Supabase), modern Next.js/TypeScript frontends, and the deployment and hardening around them. Designed and shipped **Orbit**, a live SaaS platform with OAuth, Stripe billing, and AI semantic search, solo. A background in business and data analysis brings outcome-driven scoping (ROI analysis, process design, Power BI) to engineering, and offensive-security experience (OWASP Top 10) means systems are built with the attacker's view in mind.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python, SQL

Backend: Spring Boot, Node.js, Express.js, REST API design, JPA | **Frontend:** React, Next.js, Tailwind, TanStack Query

Data: PostgreSQL, Supabase, Redis, Power BI, Excel, requirements & ROI analysis

AI / LLM: LLM integration (Claude, Gemini), AI agents, prompt engineering, SSE streaming

DevOps / Infra: Docker, Nginx, Vercel, AWS (S3, EC2), Liquibase, CI/CD, caching & performance tuning

Security: OWASP Top 10, web/mobile pen-testing, Burp Suite, Metasploit, Wireshark, hardening

Practices: Git, Agile/Scrum, TDD, BDD (Cucumber), Postman, Swagger, Jira

PROFESSIONAL EXPERIENCE

Software Engineer / IT Business Analyst — Egyptian Packaging & Plastic Systems Corp

Jul 2022 – Present · Egypt

- Engineered **SC 3D Optimizer**, a web app that cut container-planning time and improved spatial utilization, by implementing a 3D bin-packing algorithm with real-time visualization, door-clearance validation, and PDF export (React, Three.js).
- Built the company's **IT Asset Management platform from scratch**, centralizing hardware/software lifecycles into a single source of truth and eliminating manual asset-tracking gaps, by designing the data model and lifecycle workflows.
- Owned reliability and security for **25+ domains and 7 production websites** via caching, image compression, database cleanup, automated backups, and WordPress/wp-admin hardening.
- Drove executive software-investment decisions through cost-benefit/ROI analysis and Power BI dashboards, by gathering requirements, validating data quality, and presenting findings as executive summaries.
- Co-architected the IT department's governance, SOPs, and infrastructure for 90+ users (device management, Active Directory, firewall basics); automated routine tasks with scripting.

Offensive Security Engineer (Intern) — WE INNOVATE

Sep 2024 – Dec 2024 · Egypt

- Identified and exploited real-world web, mobile, and infrastructure vulnerabilities against the **OWASP Top 10**, delivering actionable remediation reports, by mapping attack surfaces with Burp Suite Pro, Metasploit, and Wireshark.
- Wrote proof-of-concept exploits and ran Active Directory / network penetration tests, surfacing privilege-escalation and lateral-movement risks.
- Developed Python scripts to automate vulnerability assessment and security-testing workflows.

Software Engineer — HomeBay Furniture

Nov 2023 – Oct 2024 · Canada (Remote)

- Built responsive e-commerce interfaces for Homebay.ca and extended WooCommerce (product management, checkout), applying caching and image optimization to improve load times.
- Built automated internal workflow scripts that synchronized catalog/asset updates and removed manual cataloging effort (Python, Google Sheets API).

Software Engineer (Intern) — Kites Software

Aug 2023 – Nov 2023 · Egypt

- Shipped tested RESTful APIs for Egypt's first SaaS ERP for import & distribution, by building endpoints test-first (TDD) and writing integration tests in BDD with Cucumber (Java, Spring Boot, PostgreSQL).
- Fixed QA-reported defects and authored onboarding wikis; worked in full Agile/Scrum with exposure to Liquibase and AWS (S3, EC2).

Business Analyst — Tact Decoration

Jun 2023 – Aug 2023 · Egypt (Remote)

- Led a digital-transformation initiative and built a centralized CRM/operations system in Notion, streamlining workflows across site engineers, architects, and supervisors.

PROJECTS

Orbit — Professional Relationship OS · byorbit.io

Next.js, TypeScript, Supabase, Gemini AI, Stripe, TanStack Query, PWA

Live SaaS built & deployed solo: multi-tenant Postgres with Row-Level-Security, Google OAuth + magic link, Stripe Free/Pro billing with usage metering, a D3 force-directed relationship graph, and Gemini-powered semantic search over connections. Full English/Arabic RTL, installable PWA.

Throughline — Behavioral Intelligence Platform

Next.js, TypeScript, Claude AI, Neon Postgres, Drizzle ORM, Clerk, SSE

AI platform transforming CliftonStrengths PDFs into 14 personalized insight sections via parallel SSE-streamed generation and a specificity-checking pipeline that auto-rejects generic output.

EPPS Container Optimizer · [live demo](#) — 3D bin-packing tool with real-time visualization, door-clearance validation, and PDF export (React, Three.js). *Also: Algorithm Visualizer (15+ algorithms), Interpack26 Python scraper.*

EDUCATION

B.Sc. Computer Science & IT — Software Engineering

Major

Ahram Canadian University (ACU), Egypt · 2019–2023 · GPA 3.36

LANGUAGES

Arabic (Native) · English (Professional) · German (Limited)

CERTIFICATIONS & ACHIEVEMENTS

- ▶ CS50: Introduction to Computer Science — HarvardX
- ▶ Designing RESTful APIs — Pluralsight · JS DS&A — freeCodeCamp
- ▶ .NET & Web Development Summer Training — ITI
- ▶ Honorable Mention, Egyptian Collegiate Programming Contest (ECPC), 2021
- ▶ Technical Writer — Medium (@binhakim): backend, databases, web security