

KEROLOS GAD

Tech Lead / Backend Software Engineer

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Summary

Software engineer with 5+ years building and operating production systems across backend development, cloud infrastructure, and applied cybersecurity, starting in 2019 alongside formal studies. Most recently tech lead for a 250,000+ user education app running at 99.9% uptime; now co-running CodeX Technologies with a team of 10. IEEE-published author of DeltaTI, a threat intelligence aggregation platform.

Education

Egypt-Japan University of Science and Technology

B.Sc. Computer Science and Information Technology – Computer Networks & Cybersecurity

October 2021 – August 2026

Alexandria, Egypt

STEM High School for Boys - 6th of October

October 2018 – August 2021

STEM Curriculum

Giza, Egypt

Work Experience

CodeX Technologies

November 2025 – Present

Co-Founder and Managing Director

Cairo, Egypt

- Grew a freelance practice running since 2019 into a full-service web, mobile, and cloud agency; lead a team of 10 engineers and designers delivering 50+ client websites and applications (Next.js, Node.js, Flutter, React Native).
- Own cloud architecture end to end on AWS, Docker, and Kubernetes, right-sizing and automating deployments to cut client operating costs by about 20%.
- Set company-wide engineering standards (code review, CI/CD pipelines, and security baselines) that every project ships against.
- Drive business development and client relationships from first pitch through delivery and retainer.

Hatching Ducks

October 2024 – Present

Senior Software Engineer (Part-time)

Remote

- Own backend and API engineering across the company's product portfolio, from architecture and data modeling through delivery.
- Design and build scalable, secure REST APIs and services consumed by web and mobile clients.
- Work closely with frontend, mobile, and product counterparts to scope features, set technical direction, and ship against release milestones.

OBM Education

March 2023 – October 2025

Tech Lead / Software Engineer

Hybrid

- Led backend development on the Taleb App, scaling it to 250,000+ users and lifting product engagement by 30%.
- Architected and operated load-balanced AWS infrastructure at 99.9% uptime, owning monitoring, on-call, and incident response end to end.
- Built out security processes and hardening practices that reduced security incidents by 40% year over year.
- Managed the internal engineering team on web projects, providing technical direction and mentorship to align execution with business goals.
- Coordinated Taleb App delivery with an external software provider, managing integration, scope, and quality against business requirements.

Freelance

October 2021 – February 2023

Software Engineer

Remote

- Delivered custom websites and web applications for startup and small-business clients, owning requirements, development, deployment, and hosting end to end.
- Built backend APIs and databases with Node.js, Express.js, and PHP on MySQL and PostgreSQL, deployed on Linux servers with Docker.
- Grew the client base and delivery practices that later became CodeX Technologies.

MIRUS

December 2019 – September 2021

Full Stack Engineer (Part-time)

Cairo, Egypt

- Designed and developed full-stack features, owning both front-end interfaces and back-end APIs.
- Built and maintained server infrastructure with automated deployment pipelines, improving reliability, scalability, and security through DevOps best practices.

Plebits

August 2019 – November 2019

Frontend Developer (Part-time)

Cairo, Egypt

- Built responsive, accessible, component-based user interfaces, translating designs and requirements into production-ready front ends with designers and back-end developers.

Publications & Projects

DeltaTI: Threat Intelligence Aggregation Platform

2026

IEEE 3SCEA 2026, IEEE Xplore – DOI: 10.1109/3SCEA68071.2026.11602789

deltati.codextech.org

- Peer-reviewed platform, developed as an E-JUST graduation project, that aggregates 18+ open-source threat intelligence feeds and normalizes them into STIX/TAXII 2.1 for SOC workflows.
- Designed a deterministic trust-scoring engine (recency, cross-source corroboration, source reliability) that ranks indicators and serves them to firewalls, IDS, and other tooling through an API.
- Containerized for on-premises deployment with Docker Compose, Redis caching, and Elastic SIEM integration; the platform build also includes a LoRA-fine-tuned SecureBERT 2.0 classifier (macro-F1 of 0.99).

Leadership & Community

Student Ambassador , CyberTalents – hosted CSCAMP 2019 (500+ participants)	Oct 2019 – Oct 2023
Community Ambassador , OWASP Cairo Chapter – led AppSec Africa 2019 (500+ attendees)	Aug 2019 – Aug 2020
Software Developer Intern , Andela BuildforSDG Challenge	Aug 2020 – Dec 2020
IT Infrastructure Volunteer , STEM High School for Boys - 6th of October	Oct 2018 – Jul 2021
3rd Place , Crisis HackX Hackathon	2020

Certifications

McKinsey.org Forward Program – McKinsey & Company	Dec 2024
Certified Threat Intelligence Analyst (CTIA) – EC-Council (<i>ID: ECC6429178053</i>)	Jul 2024
Aspire Leaders Program – Aspire Institute	Apr 2024
Google Cybersecurity Specialization – Google (<i>ID: CJF5Z3M9AL38</i>)	Dec 2023
Practical Web Application Security and Testing – TCM Security (<i>ID: QTMHB0WT</i>)	May 2023
Google IT Automation with Python Specialization – Google (<i>ID: HKEQF7AZRBM5</i>)	Mar 2023
Introduction to Cybersecurity Bootcamp by Trend Micro – CyberTalents (<i>ID: 207079278</i>)	Sep 2022
Practical Ethical Hacking – TCM Security (<i>ID: DRXLFPY</i>)	Sep 2022
Google IT Support Specialization – Google (<i>ID: YAWYJ55GJ6FB</i>)	Nov 2020

Skills

Languages: JavaScript, TypeScript, Python, PHP, SQL, Bash, PowerShell

Backend: Node.js, Express.js, Laravel, Django, REST API design, microservices, system design

Frontend & Desktop: React, Next.js, Vue.js, Nuxt, Svelte, Tailwind CSS, Bootstrap, Electron

Databases: PostgreSQL, MySQL/MariaDB, Microsoft SQL Server, MongoDB, Redis, SQLite, Firebase

Cloud & DevOps: AWS (EC2, RDS, S3), Docker, Kubernetes, Terraform, Nginx & load balancing, Cloudflare, CI/CD (GitLab CI, Jenkins)

Systems & Monitoring: Linux, Windows Server, TCP/IP, DNS, Grafana, Netdata, Elastic Stack

Security: Threat intelligence (STIX/TAXII 2.1), secure architecture, OWASP Top 10 & secure coding, incident response, SIEM, blue teaming

Tools: Git, Postman, Figma

Leadership: Technical leadership, team mentoring, code review, agile delivery, client management, business development