

# Khaled Ibrahim

Full Stack Developer | Cybersecurity & AI Enthusiast

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## Professional Summary

Full Stack Developer with a strong foundation in **Cybersecurity** and **Artificial Intelligence**. Experienced in building secure, production-grade MERN applications, implementing **DevSecOps** practices, and integrating AI agents for automation. Proven ability to optimize API performance and ensure industry-standard security compliance (OWASP). Passionate about secure software design, cloud solutions, and solving complex real-world problems.

## Technical Skills

**Languages:** JavaScript, Python, C++, Dart, SQL

**Full Stack:** React.js, Node.js, Express.js, MongoDB, MySQL, REST APIs

**Cloud & DevOps:** AWS (EC2, Lambda), Google Cloud, Docker, Kubernetes, Terraform, CI/CD

**Cybersecurity:** OWASP Top 10, DevSecOps, Secure Coding, Encryption (AES/RSA), Threat Management

**AI & ML:** Google Gemini API, OpenAI API, Agents, Model Deployment, Scikit-learn, NLP

**Testing & Methodologies:** Jest, Mocha, Agile (Scrum, Kanban), Git, Postman, Linux

## Experience

### Full Stack Developer

Information Technology Institute (ITI)

Feb 2025 – Aug 2025

Cairo, Egypt

- Developed secure MERN applications, **reducing API latency by 20%** through Express.js optimization and caching.
- Collaborated in Agile sprints to implement backend microservices and ensure robust DB performance via indexing.

### ITIDA Gigs Program

Freelance Training

Jan 2025 – Mar 2025

Remote

- Delivered technical solutions for web & AI integration projects, meeting client deadlines with **95% satisfaction**.

### Data Communication & Network Technology

Huawei

Aug 2024 – Sep 2024

Training

- Gained hands-on experience in enterprise networking, configuring routers/switches for optimal uptime.

## Projects

### CYBER CRYPT – Advanced Security Platform | Node.js, Express, MongoDB

2026 – Present

- Architected a comprehensive encryption ecosystem implementing 10+ algorithms (RSA, AES, DES, 3DES, Playfair).
- Engineered a military-grade secure messaging system featuring end-to-end encryption and zero-knowledge privacy.
- Hardened system defenses against OWASP Top 10 threats via strict input sanitization and secure OAuth 2.0.
- Live Demo: [cryptoo.up.railway.app](#)

### HR Management System (SJ SJ Company - KSA) | Node.js, Express, MongoDB

2025

- Developed a full-featured HR system, **reducing payroll processing time by 40%** via automated calculations.
- Implemented granular Role-Based Access Control (RBAC) to secure sensitive employee data and contracts.

### Investment ROI Calculator (Trustee Holding – UAE) | Node.js, React

2025

- Built a full-stack ROI calculator for a UAE holding company, enabling real-time analysis for 5+ stakeholders.
- Automated PDF report generation (~**80% time saved**) and designed dashboards for executive presentations.

### Aqar AI-Powered System (KSA Market) | Node.js, Puppeteer, AI Analytics

2025

- Built a fault-tolerant scraping pipeline collecting **10,000+ real estate records** for market analysis.
- Applied AI-driven cleaning and analysis, improving data accuracy and insight generation by **25%**.

### Budget Buddy | Node.js, AI Agents, Gemini API

2025 – Present

- Integrated AI Agents for real-time financial advice, processing user queries with **<200ms latency**.
- Live Demo: [web-production-f915a.up.railway.app](#)

### Breast Cancer Prediction | Python, Scikit-learn, ML

2024

- Deployed ML models (SVM, KNN, RandomForest) achieving high accuracy in tumor classification.

### Networks Infrastructure Design | Cisco Packet Tracer

2023

- Designed a scalable network infrastructure supporting VLANs, DHCP, and secure routing protocols.

## Education

### Sphinx University

Bachelor of Artificial Intelligence (Cybersecurity Track)

Assiut, Egypt

Expected Graduation: 2027

## Certifications

**2025:** Endpoint Security (Cisco) • Cyber Threat Management (Cisco) • ITIDA Gigs Freelance Training • AI Prompt Engineering (DFF)

**2024:** Data Communication & Network Tech (Huawei) • Kaggle Intro to ML / Intermediate ML

**2022:** Cisco Cybersecurity