

# Amin Mohamed Amin

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## Professional Summary

A highly motivated and versatile Information Technology student nearing graduation (expected 2026), possessing practical experience as a Software Engineer across diverse domains including Cybersecurity, Artificial Intelligence (AI), Machine Learning (ML), and Full-Stack Web Development. Demonstrates strong analytical and problem-solving capabilities with a proven aptitude for developing secure, efficient, and automated systems. Possesses a comprehensive background built through targeted internships with leading organizations like IBM and Cisco, supplemented by freelance projects and part-time roles. Eager to leverage a robust technical skill set encompassing Python, Java, C++, JavaScript, and cybersecurity tools to contribute effectively to challenging software engineering roles within a European context.

## Skills

### Technical Skills:

- **Programming Languages:** Python (Advanced), Java (Intermediate), C/C++ (Intermediate), JavaScript (Intermediate), Bash Scripting (Intermediate)
- **Web Development:** HTML5, CSS3, Node.js, Full-Stack Development, API Development, PostgreSQL
- **Cybersecurity:** Ethical Hacking, Penetration Testing, Malware Analysis, Network Security, Honeypot Deployment, Threat Detection, Secure Application Development
- **Artificial Intelligence & Machine Learning:** AI Modeling, Deep Learning, Machine Learning Algorithms, Data Analysis, Automation Scripting, Pattern Recognition
- **Networking:** Cisco Certified Network Associate (CCNA) concepts, Network Configuration, Switching, Routing, Network Security Fundamentals, Cisco Packet Tracer
- **Tools & Technologies:** Git, Linux (Ubuntu), Arduino IDE, Docker (Basic), Virtualization

## Soft Skills:

- Problem Solving, Adaptability, Self-Motivation, Time Management, Effective Communication, Teamwork & Collaboration, Critical Thinking

## Work & Internship Experience

**AI & Software Projects (Part-Time)** | Outlier AI, LinkedIn, Upwork | Ongoing \* Designed and implemented AI-driven automation tools to simulate user interactions and monitor activities on social media platforms like LinkedIn and Facebook, utilizing Python and Java. \* Developed secure software utilities for operating system and web application automation, enhancing efficiency and security for various tasks.

**Intern - Cybersecurity & IT** | IBM, OPSWAT, TCM Security, Red Users, CODEALPHA, Edraak, HP LIFE | Various Dates \* Acquired practical experience in core cybersecurity disciplines, including network security protocols, comprehensive malware analysis techniques, and simulated penetration testing exercises. \* Utilized industry-standard cybersecurity tools (specific tools can be mentioned if known) and contributed to the development of secure applications, adhering to security best practices. \* Successfully completed hands-on labs and simulations focusing on network defense strategies, ethical hacking methodologies, and proactive threat detection.

**Intern - Python & AI Development** | NTI, Science Land, UDEMY | Various Dates \* Developed and trained Python-based Artificial Intelligence models for diverse machine learning and deep learning applications. \* Applied advanced data analysis techniques for identifying patterns, enabling automation, and deriving insights from complex datasets. \* Engineered problem-solving algorithms and contributed to the architecture and implementation of AI-powered systems.

**Intern - Networking (CCNA Program)** | Cisco Networking Academy | Various Dates \* Completed comprehensive training covering network fundamentals, advanced switching and routing protocols, network automation principles, and security concepts based on the CCNA curriculum. \* Gained hands-on experience in designing, configuring, and troubleshooting small to mid-sized networks using simulation tools like Cisco Packet Tracer.

**Intern - Full-Stack Web Development** | Information Technology Institute (ITI) | Various Dates \* Participated in the end-to-end development lifecycle of web applications, utilizing front-end technologies (HTML, CSS, JavaScript) and back-end technologies (Node.js, Python). \* Focused on building secure and scalable back-end APIs and successfully integrated them with PostgreSQL databases.

# Key Projects

**AI Interaction & Monitoring System** (2025) \* Engineered sophisticated automation systems using Python and Java to emulate human user interaction patterns for platforms like LinkedIn and Facebook, designed for monitoring and analysis purposes.

**Automation Software for OS & Web** (2025) \* Developed secure automation solutions targeting both operating system tasks and web interactions, particularly for social media management and device configuration, enhancing productivity and security.

**Cybersecurity Tools Suite** (2024) \* Created a collection of cybersecurity tools using Python and Bash, including keyloggers, IP trackers, malware scanners, and proof-of-concept DDoS tools for educational and defensive research purposes. \* Implemented honeypots for threat intelligence gathering and developed payload engineering scripts for security testing scenarios.

**Full-Stack Website for Software Sales** (2024) \* Designed and built a complete e-commerce website for software sales, developing both the frontend user interface (HTML, CSS, JavaScript) and the backend logic (Node.js) with data persistence using PostgreSQL.

**Blockchain Encryption System** (2024) \* Conceptualized and built a secure data encryption model leveraging blockchain principles for enhanced integrity and confidentiality, intended for academic exploration and demonstration.

**Arduino-Powered Surveillance Drone** (2023) \* Constructed and programmed a surveillance drone utilizing Arduino microcontrollers and Python scripting, featuring automated navigation capabilities and integrated sensors for data collection.

# Education

**Bachelor of Science in Information Technology** Nahda University - Beni Suef, Egypt  
Expected Graduation: 2026

# Certifications & Training

- Cybersecurity Internships & Training (IBM, OPSWAT, TCM Security, RED USERS)
- Python & Machine Learning Training (UDEMY, Edraak, CODEALPHA)
- AI Development Training (NTI, Science Land)
- Full-Stack Web Development Training (Information Technology Institute - ITI)
- CCNA Networking Program (Cisco Networking Academy)
- Business & IT Training (HP LIFE Program)

- Technical Internship (BEDO)

## Languages

- **Arabic:** Native
- **English:** Professional Working Proficiency