Elsayed Rezkallah

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EDUCATION

- **Egyptian Chinese University** — Cairo, Egypt
  Bachelor of Engineering in Software Engineering and Information Technology — *Sep. 2022 – July. 2027*

EXPERIENCE

- **Digital Egypt Cubs Initiative** — Freelance - On Site
  Teaching Assistant — *March 2025 - Present*
  - **Student Support and Mentorship**: Provided guidance and support to students, helping them understand complex programming concepts through hands-on exercises and real-world scenarios.
  - **Practical Labs Assessments**: Developed and supervised lab exercises and assessments to reinforce theoretical knowledge, ensuring students gained practical experience in cybersecurity tools and techniques.

- **Samsung Innovation Campus** — Training - Hybrid
  Coding & Programming Trainee — *Jul 2024 - Sep 2024*
  - **Python Development**: Developed efficient Python scripts utilizing **variables, conditions, loops, and functions**, optimized code execution, and implemented exception handling. Utilized key libraries such as `math`, `datetime`, and `random`.
  - **Object-Oriented Programming (OOP)**: Designed and implemented modular, reusable Python applications using **Encapsulation, Inheritance, Polymorphism, and Abstraction**. Developed custom **Dunder Methods** to enhance object behavior.
  - **Data Structures & Algorithms**: Implemented fundamental and advanced data structures (**Lists, Sets, Dictionaries, Trees, Graphs, HashMaps**). Optimized sorting and searching algorithms, reducing execution time by **30%** on large datasets.
  - **Algorithmic Problem-Solving**: Applied **Recursion, Dynamic Programming, Greedy Algorithms, and Divide & Conquer** to solve complex problems. Analyzed time complexity using **Big O Notation**.

- **Systel Telecom** — Training - On Site
  Networking and Cybersecurity Trainee — *Jan 2024 - Feb 2024*
  - **Network Configuration & Troubleshooting**: Configured and troubleshot network infrastructure, including **routers, switches, firewalls, and VLANs**, ensuring optimal performance and security. Used **Cisco IOS, Packet Tracer, and Wireshark** for monitoring and diagnostics.
  - **Security Assessments & Hardening**: Performed **vulnerability scans, penetration testing, and security hardening** to mitigate risks. Implemented firewall rules and access control policies to enhance network security.
  - **Technology Adaptation & Continuous Learning**: Explored and implemented emerging **networking and cybersecurity technologies**, including **IDS/IPS, SIEM, and cloud security solutions**, to improve efficiency and resilience.
  - **Network Documentation & Optimization**: Created detailed **network diagrams, security policies, and troubleshooting guides** , improving documentation standards and knowledge sharing.

PROJECTS

- **Network Packet Sniffer – Python-Based Network Monitoring Tool**: Developed a **comprehensive network packet sniffer** using **Python** to capture, analyze, and visualize network traffic in real time. The tool supports filtering by protocol, source, and destination, and logs packet details for further analysis. [**GitHub:** Link]
- **Keylogger – Python-Based Keystroke Monitoring Tool**: Designed and implemented a **keylogger** using **Python** for **security research and forensic analysis**. The tool captures keystrokes, logs special keys, and records timestamps for each entry to aid in security assessments and awareness. [**GitHub:** Link]
- **Pixel Manipulation for Image Encryption – Secure Image Processing Tool**: Developed an **image encryption and decryption tool** using **XOR-based pixel manipulation techniques** to enhance data security and protect sensitive visual information. The tool allows users to encrypt and decrypt images efficiently with a user-defined key, ensuring confidentiality and integrity. [**GitHub:** Link]
- **Caesar Cipher – Encryption & Decryption Tool**: Developed a **Python-based Caesar Cipher tool** for encrypting and decrypting text using **shift-based substitution encryption**. The program supports both encryption and decryption, validates user input, and ensures security by handling invalid cases effectively. [**GitHub:** Link]
- **Password Checker – Security Strength Assessment Tool**: Developed a **password strength checker** using **Python** to evaluate and enhance password security. [**GitHub:** Link]

Technical Skills

- **Programming Languages**: Python, C#, C++, HTML, CSS, JavaScript, SQL

- **Technologies, Tools, and Frameworks**: Linux, Git, GitHub, .NET, EF Core, LINQ, ASP.NET MVC & API, SDLC, OOP, Data Structures, Algorithms

- **Cybersecurity and Networking Skills**: Wireshark, Burp Suite, Phishing, Anti-Phishing, Security Operations, IT Security Policies & Procedures, Network Protocols, Threat Analysis

Volunteering Experience

- **IEEE ECU Student Branch** — Egyptian Chinese University
  Head of Software Department — *Feb 2025 - Present*
  - Managing and leading the Software Department, overseeing multiple educational tracks with over **50 students**.
  - Organizing and delivering workshops on **Web Development, Cybersecurity, Data Science, Machine Learning, and Flutter Development** to enhance students' technical skills.
  - Mentoring students in **programming, algorithms, and software development** best practices, improving their problem-solving abilities.
  - Collaborating with other departments to integrate software solutions into university-led projects, optimizing workflows and efficiency.

- **GDG on Campus** — Egyptian Chinese University
  Cybersecurity Team Leader — *Oct 2024 - Present*
  - Led cybersecurity training sessions covering **Computer Network Fundamentals, Operating System Fundamentals, and Cybersecurity Essentials**, equipping students with foundational security knowledge.
  - Organizing and hosting **Capture The Flag (CTF)** challenges, simulating real-world security scenarios to strengthen students' cybersecurity skills.
  - Providing mentorship in network security, SOC, and Bug Bounty, empowering students to pursue cybersecurity careers.

- **Microsoft Chapter - ECU** — Egyptian Chinese University
  Cybersecurity Team Leader — *May 2024 - Oct 2024*
  - Led cybersecurity training sessions covering **Computer Network Fundamentals, Operating System Fundamentals, and Cybersecurity Essentials**, equipping students with foundational security knowledge.

Certifications and Courses

- ISC2 - Certified in Cybersecurity (CC), Nov 2024

- Career Essentials in Cybersecurity by Microsoft and LinkedIn, Oct 2024

- Cisco Networking Academy - Python Essentials 2, Jun 2024

- Microsoft Learn Student Ambassadors - CodeCraft: Mastering GitHub Magic, May 2024

- Fortinet - Fortinet Certified Fundamentals in Cybersecurity (FCF), May 2024

- CyberTalents - Introduction to Cybersecurity Bootcamp, May 2024

- CyberTalents - Certified Linux Practitioner, Apr 2024

- Forage - Mastercard - Cybersecurity Job Simulation, Feb 2024

- Cisco Networking Academy - Cybersecurity Essentials, Jun 2023

- Cisco Networking Academy - Introduction to Cybersecurity, Mar 2023