


# SALMA ESSAM


## INFORMATION TECHNOLOGY GRADUATE


salmaessamsh@gmail.com 

+201503886446 

6 October City, Egypt 

www.linkedin.com/in/salmaessammo 

www.salmaessam.wiki (Portfolio) 

https://github.com/zalmaessam 

## CAREER OBJECTIVE

Recent IT graduate with a passion for cybersecurity, UI/UX Design and hands on experience in network monitoring and Python development. Seeking an entry level position/ Internship in Data Science or UI/UX Designing to apply my technical skills and grow within a dynamic tech team.

## EDUCATION

**Business Information Technology - Bachelor's Degree** (2021- 2025) **GPA 3.82**

**Cape Breton University in Canada (accredited) / Canadian International College in Egypt**

- Awarded Best Graduation Project among cohort peers for outstanding innovation, technical execution, and business planning.
- Went on an abroad course for business students to Spain in 2022 and took multiple courses with certificates.
- Was a team leader in a technical student activity called IEEE during my first and second academic years.

**High School Diploma** (2021)

**6 October Language School**

- Was chosen and accepted to work on Taqaddam projects with the British Counsel in 2020.
- Engineered a QR code bracelet as a prototype used for medical records and criminal records to help identify users and save lives during emergencies.

## PROJECTS

**Graduation Project - WatchTower**

**AI-Powered Cybersecurity SOC Tool for Network Intrusion Detection (Linux-Based)**

(Team Leader – Group of 4)

### Overview:

Developed a Security Operations Center (SOC) tool that leverages AI and Suricata IDS for real time threat detection and automated incident response.

### Features:

- Real-time Suricata IDS log monitoring
- AI-powered threat classification using LLMs (Gemini, LLaMA3, etc.)
- Automated response agents for IP blocking, alerting, and research
- Built in communication for secured internal and faster SOC collaboration
- Clean, simple UI for fast learning and deployment.
- BI dashboards for threat visualization and decision-making
- Role and License based access, user management, and more
- SaaS-ready: Any company can subscribe via our website.

### My Contributions:

- Led the team and managed project workflow
- Implemented the Suricata IDS module and integrated system components
- Developed the core Linux desktop application using object-oriented Python
- Designed and built the user interface

- Created and deployed a secure, SSL-certified marketing website
- Designed business elements including a financial plan, business model, SWOT analysis, and market research

**Technologies Used:** Suricata, Groq, Python, Pandas, Dash and Plotly, Gemini LLM, HackerNews

## Infested Plants Detector ( PlantPulse )

University Course Project

- **Used:** Python, PyTorch, scikit-learn
- Worked with 2 teammates on processing and labeling over 10,000+ plant images for the model to be able to detect infections or deceases in plants by simply taking a picture of a plant.

## Python Quiz Application

University Course Project

- **Used:** Python, Flask , tkinter
- Worked in a team on a quiz application that asks users about their favorite games and then suggests new games based on their preferences.
- SQLite was used to store results in the quiz in different slots.
- Further steps were to implement machine learning to enhance the recommendation.

## E-commerce Website

University Course Project

- **Languages used:** PHP, HTML, CSS
- E-store where users can view products, add items to their cart, and proceed to checkout.
- Includes a dashboard which allows administrators to manage products, view orders, and handle user accounts.

## CERTIFICATIONS AND COURSES

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### Cybersecurity Governance, Risk and Compliance (GRC) Internship

(2024)

#### ZeroSploit

- Supported third-party/vendor risk assessments.
- Assisting in updating and maintaining cybersecurity policies, standards, and procedures.
- Researching and documenting compliance requirements.
- Primarily involved in reviewing policies and procedures to identify gaps or outdated information.

### Cybersecurity Governance, Risk and Compliance (Bootcamp Training)

(2024)

#### WE Innovate - Sponsored by ITI and NTRA

- Hands on experience with tools like Kaspersky, Microsoft SQL Server, Nessus, Amazon AWS, Ubuntu Linux, OpenDLP , and IDM Server. We also got to practice creating scan profiles, performing scans, reviewing results, and updating Regex.
- Created detailed reports on various files, such as log files, asset lists, network diagrams, and Nessus scan results

### Network Fundamentals & Protocols

(2023)

Coursera ( online )

### Linux Administration

(2023)

Linux Foundation (online)

### International Business Management

(2022)

EDEM Business University (Spain, Valencia)

### CS50: Introduction to CS

(2022)

Harvard (online)

### Figma UI/UX

(2022)

Canadian International College

### Cyber Security Fundamentals

(2022)

Canadian International College

### Python

(2021)

Canadian International College

## EXPERIENCE

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### UI/UX DESIGN - FREELANCE



[Portfolio Link](#)

2022 - Present

Remote - Part-time

- Designed custom UI/UX interfaces for web and software applications, improving user engagement and usability.
- Created 3 software UI prototypes and 2 complete UX website designs tailored to client needs.
- Conducted user research and usability testing to guide design decisions
- Delivered responsive, user centered designs with tools like Figma and Adobe XD.
- Developed wireframes, interactive prototypes, and design systems

### CUSTOMER SUPPORT AGENT - USA ACCOUNT

2023 - 2024

Raya CX

- Conducted thorough investigations and gathered necessary data to provide solutions for customers through the knowledge base
- Worked partially on handling technical account issues.
- Contacting customers via chat, calls and emails.

## SKILLS

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#### Programming Languages:

Python, C++, JavaScript, HTML/CSS, PHP

#### Databases & Backend:

SQL, PostgreSQL, XAMPP

#### Cloud & Deployment:

Cloud Services, Model Deployment, Configuration Management

#### Tools & Platforms:

Figma, Adobe Photoshop, Linux (Ubuntu)

#### Soft Skills:

Problem Solving, Adaptability, Teamwork & Collaboration, Communication

## LANGUAGES

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English - **C1**

Arabic - **C2**

German - **A2**