Sabah Hagos

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EDUCATION

Fordham University New York, NY *Bachelor of Science in Computer Science*
Organizations: NSBE, EESA, Technica, ColorStack, SHPE *Minors: Cybersecurity, Anthropology*

CERTIFICATIONS

AWS Certified Cloud Practitioner, CompTIA Security+ *SYS -601*, ICP Agile Fundamentals, AZ-900T00-A: Microsoft Azure Fundamentals

SKILLS

Cloud Platforms & Services: AWS, Azure, Google Cloud, EC2, S3, Lambda, API Gateway, CloudWatch, Cognito, RDS, DynamoDB
Languages: Python, C++, Java, JavaScript, R, HTML/CSS, SQL
Databases: MongoDB, AWS Redshift, BigQuery, SQLite, MySQL
Tools/Frameworks: Streamlit, Hugging Face, Ollama, Docker, Tableau, Wireshark, Pandas, Excel, Linux, Git, Snort, Splunk, Kanban, Jira, TensorFlow

WORK EXPERIENCE

IT Business Analyst | Marsh McLennan **June 2024 - January 2025**
Remote

- Assisted with User Acceptance Testing for Marsh McLennan's new CRM system and increased bug detection by 75% by analyzing and documenting issues.
- Collaborated closely with the development team using agile methodologies (Daily scrum meetings, Kanban, Jira).

IT Security Intern | One Village Kids Academy **May 2024 - Current**
Remote

- Created and maintained IT Security and Assurance website, integrating security threat monitoring features, such as "Tip of the Day," boosting user engagement by 35%.
- Conducted compliance monitoring and investigations, recording and tracking incidents, including copyright violations and email threats, ensuring adherence to university-accepted security protocols.
- Assisted in performing forensics analysis, vulnerability assessments, and penetration testing for networks, servers, and applications, enhancing security posture and reducing risks by 45%.

PROJECTS

Global Mood Tracker - Spotify Trends **March 2025**
Python, TensorFlow, Spotify API, Seaborn

- Built an interactive system that tracked and visualized the collective mood of Spotify users across regions by scraping Spotify's Top 50 charts globally.
- Achieved 85% classification accuracy by training a deep learning model in TensorFlow/Keras to predict the mood of top songs (e.g., Calm, Energetic, Happy, Sad) using Spotify audio features.
- Created a real-time heatmap using Seaborn and Matplotlib to display mood distributions by country, enabling insights into regional music sentiment trends.

AI-Enhanced iMessage Application **February 2025**
React

- Created a React web application similar to iMessage, employing Bootstrap, JavaScript, and HTML.
- Implemented a NodeJS Server and MongoDB database for the backend.
- Designed multiple tables for user information storage and utilized MongoDB queries for data manipulation.

AI-powered Quishing Detection System **December 2024**
Python, Pandas, Scikit-learn

- Achieved 93.6% accuracy in detecting malicious URLs by designing, training, and evaluating machine learning models (Random Forest, XGBoost, LightGBM, Gaussian Naive Bayes) on a dataset of 195,000+ QR code-decoded URLs

Switch Spotify Web App **October 2024**
Node.js, React, RESTful API

- Web application for DJs to find songs based on tempo and view track features like popularity and musical key.
- Built using Node.js with Express for authentication and RESTful APIs, React, and the Spotify API