Zeyad Al Sakhi

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EDUCATION

Georgia Institute of Technology — Aug 2021 - May 2024
B.S. Computer Science - Bahrain Crown Prince International Scholarship — GPA: 3.73/4.0
Concentrations: Computer Systems Architecture and Information Internetworks

TECHNICAL SKILLS

Software languages: C, C++, Python, Java, Assembly, VHDL   **ML/AI:** Numpy, Pandas, ScikitLearn, Matplotlib
Web Technologies: React , HTML, CSS, JavaScript   **Other:** MySQL, Git, LateX, Android Studio, Agile, Jira
Relevant Coursework: Advanced Computer Architecture, Processor Design, Operating Systems, Machine Learning, Artificial Intelligence, Advanced Algorithms and Data Structures, Networking, OOP, Algorithmic Design, Databases

EXPERIENCE

Investcorp — June 2023 - August 2023
Security Engineer — Bahrain

- Developed an Outlook Metadata Anomaly Detector using Azure Synapse Analytics and PySpark for data processing and analysis, flagging suspicious email activities.
- Analyzed 500,000+ email meta entries, identifying 0.2% as potential threats based on features like excessive BCC to external domains, irregular email timings, and unusual recipient interactions.
- Conducted broad scanning and vulnerability analysis, investigating source and destination IPs and port numbers, improving vulnerability detection by 25% and enhancing network security.
- Designed a Ransomware Incident Handling Playbook, outlining procedural guidelines and response strategies to efficiently address potential ransomware attacks, reducing response time by 40%.

Bapco Energies — May 2023 – June 2023
Cyber Security Trainee — Awali, Southern Governorate, Bahrain

- Managed SOC incident handling using Microsoft Sentinel and Microsoft Defender Security, streamlining threat detection and mitigation processes, resulting in a 20% faster response to incidents.
- Developed a web scraper to extract security-related keywords from Google articles, enhancing employee awareness and reducing security-related incidents by 15%.
- Employed Azure Sentinel and KQL for real-time data extraction and analysis from security logs, enabling prompt threat detection and response, analyzing 100+ events daily.

Georgia Tech Vertically Integrated Program — Aug 2022 - Present
Machine Learning Research Team Lead — Atlanta, Georgia

- Led the largest research subteam, engineering and deploying SVM, K-Nearest Neighbor, and YOLOv8 CNN models, achieving a 95% accuracy in classifying microscopic 3D print images into defective and non-defective categories.
- Employed feature extraction techniques including Histogram of Oriented Gradients (HOG), enhancing model performance and reducing false negatives by 20%, critical for early defect detection.
- Conducted rigorous iterative testing, model tuning, and data augmentation strategies, improving classification accuracy by 15%, significantly elevating the quality control standards in 3D printing processes.

PROJECTS

CryptoLearn

- Developed a live crypto and stocks tracker using Binance and Yahoo Finance APIs, providing real-time data on prices across 10+ currencies, tracking 200+ daily trades, and monitoring 50+ assets' market metrics.
- Created a financial dashboard with matplotlib and CryptoCompare API, analyzing 100+ cryptocurrencies' returns over various periods, and rendering data visualizations for enhanced investment insights.

DayMaker

- Developed DayMaker, streamlining event and deadline tracking by processing uploaded documents with OCR and NLP, and syncing extracted dates to Google Calendar, automating 500+ event entries.
- Implemented secure authentication and authorization for Google Calendar and NLP Google Cloud APIs access, enhancing system security.
- Orchestrated OAuth 2.0 Protocol for secure Google Calendar API requests, ensuring accurate data synchronization.
- Achieved 1st place in the Google Cloud Category at HackTX hackathon.

LEADERSHIP

Undergraduate Research Ambassadors — August 2023 – Present
Computer Science Research Ambassador — Atlanta, Georgia

- Spearheaded undergraduate research initiatives, boosting engagement by 30% with the involvement of over 200 students.
- Offered personalized guidance through one-on-one sessions with 50+ freshmen and sophomores, aiding their integration into 20+ ongoing research projects.

Bahrain Crown Prince International Scholarship Program Alumni Association — Jul 2021 - Present
Academic Mentor

- Mentored 30+ candidates in the Crown Prince International Scholarship Program (CPISP), aiding in their academic and career advancements.
- Conducted 50+ individual remote consultations, providing tailored advice and fostering a supportive environment.