SAM KADOUH

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EDUCATION

Columbia University | Dec 2024
Master of Science, Applied Analytics | GPA: 4.0
Courses: Data Storytelling, Advanced Machine Learning, Frameworks & Methods, Strategy & Analytics, Entrepreneurship
Societies: LLM Consulting Club, Analytics Consulting Group, Business Management Club, Applied Analytics Club
Brunel University London | July 2022
Bachelor of Engineering in Electrical & Computer Engineering | Upper Second-Class Honors
Courses: AI Systems, Advanced Computing Techniques, Object Oriented Systems & Programming

WORK EXPERIENCE

Stealth Startup |Oct 2024 – March 2025| New York, NY
Backend Software Engineer

- Designed and implemented OpenAPI specifications (YAML) for Notion, X, DropBox, and Github using Swagger UI for documentation and testing.
- Built CNCF serverless workflows integrating multiple APIs, automating tasks like creating Github issues and sending a notification on Slack.
- Developed RAG-enhanced API endpoints to better understand user intent and dynamically generate workflow definitions.
- Designed and developed backend services, integrated authentication, and leveraged serverless computing for asynchronous workflow execution.

Credico |Jun 2024 – Aug 2024| Chicago, IL
Business Intelligence Analyst Intern

- Designed and implemented an algorithm using Qlik Application Automation to generate 40-page reports for consultants on a weekly schedule, reducing manual labor by 4 hours per week and saving the company $120,000 annually.
- Recommended and implemented custom thumbnail graphics for Qlik Sense applications, enhancing user interface aesthetics and improving application navigation efficiency, leading to a 15% increase in user adoption and satisfaction.
- Managed distribution lists in Qlik NPrinting for automated internal reporting, enhanced report visuals and formatting, and conducted quality control checks on data, ensuring accuracy and consistency.

Brunel University London |Sep 2021 – Feb 2023| London, UK
Bachelor of Engineering Research/Thesis

- Developed a front-end website that retrieves Twitter data via API based on user-input keywords, using Python for sentiment analysis, word counts, frequency analysis, and word clouds to deliver insightful visualizations.
- Structured a PostgreSQL database to store tweets from Twitter API using Tweepy, enabling efficient data management and analysis.
- Utilized NLP and text analysis techniques to provide actionable insights, offering an understanding of the sentiment of the word.

Money Expert |Oct 2020 – Sep 2021| Surrey, UK
Software Engineer Intern

- Partnered with UI/UX designers, developers, and systems analysts to develop cohesive React Native mobile applications, contributing to a 30% increase in user engagement.
- Conducted code reviews on GitHub, enhancing code quality and leading to a 20% reduction in post-deployment issues.
- Collaborated with the BI team to manage and optimize data workflows, leveraging SQL to streamline reporting processes, resulting in a 25% reduction in data retrieval times and improved accuracy across 50+ financial reports per month

RESEARCH EXPERIENCE

Financial Institution | Sep 2024 – Dec 2024 | New York, NY
Capstone Project: Anti-Money Laundering Detection Using Machine Learning

- Developed a machine learning model to detect Anti-Money Laundering (AML) activities, focusing on three main typologies.
- Analyzed financial company and industry data to create predictive models for detecting suspicious behavior.
- Utilized Python and R, data visualization, and econometric modeling to process and analyze large datasets.

LANGUAGE AND IT SKILLS

- Languages: Arabic (Native), English (Fluent), French (Elementary Proficiency).
- Computer Skills: OpenAPI, YAML, React, Javascript, API Integration, Serverless Workflows, RAG, State Machines, RESTful APIs, OAuth2, Prompt Engineering, SQL, R, Python, NLP, Tableau, Qlik Application Automation, Data Preprocessing, Data Visualization, EDA, Supervised & Unsupervised Learning, Regression, Clustering, Model Evaluation, Docker, Git Commands, Quarkus