

Olumide Omololu

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Objective

Seasoned problem solver and solution Implementer with substantial industry exposure, a strong technological background, and a mission to play a pivotal role in building a data-powered future fueled by machine learning and big data.

Education

University of Nottingham – M.Sc. Computer Science [Artificial Intelligence] (Sep 2020 – Sep 2021)

Relevant Coursework: Human-AI Interaction, Databases, Interfaces and Software Design Principles, Data Modeling and Analysis, Big Data, Malware Analysis

Projects:

- **Development of a question answering chatbot using natural language processing methods:** Utilization of term-document modelling and cosine similarity to implement a small-talk capable chatbot based on a question-and-answer database using the NLTK, NumPy and Scikit-Learn python libraries.
- **Development of a traffic violation database:** A web application designed to effectively record traffic violations and associated data such as fines and personal data using Php and MySQL.
- **Cryptocurrency price forecasting with big data:** Utilization of Apache Spark's streaming linear regression feature to forecast the changes in the price of Ethereum over prespecified time windows using Apache Spark and the Yahoo finance API.
- **Development of 2D space shooter game:** Utilization of the pygame library and open-source graphic in the collaborative development of 2D space shooter with adjustable difficulty settings.

Extracurricular Activities: Competitive Programming Team, Hacking and Programming society

Thesis: Investigation of fake news classification via hybrid features

- Evaluation of the impact of employing tweet propagation metrics in tandem with textual data from tweets on the classification performance of five selected machine learning algorithms on fake news on the Twitter social media platform. This project utilized the Scikit-Learn, Networkx, Tweepy, Pandas, SciPy and Scikit-Optimize libraries.

Covenant University – B.Eng. Computer Engineering (Sep 2011 – Jun 2016)

Relevant Coursework: Software Engineering, Object-Oriented Programming, Computer Networking and Security, Computer Architecture, Microprocessor systems, Embedded Systems

Extracurricular Activities: Association of Electrical and Information Engineering Students

Thesis: Fish classification using artificial neural networks

- Development of a fish classification system trained on locally available fish species which employs the use of singular value decomposition for feature extraction and a neural network. This project utilized the image processing and neural network toolkits on Matlab.

Experience

Technology Consultant (Cybersecurity & Revenue Assurance) – KPMG (Sep 2018 – Sep 2020)

- Served as a Team-member on a risk assessment, revenue assurance and quality assurance project of business processes and applications for a leading Bank via data analysis and validation of income ledgers. Cleaned, analyzed and computed transaction data on maintenance charges spooled from enterprise databases to assure the figures stated in the company's financial report via design and implementation of data analysis pipeline to simulate charge consolidation operations over a financial year.
- Developed social engineering simulator software using the flask framework with credential logging functionality for use in information security awareness assessment thereby eliminating reliance on 3rd party and vendor-provided information security testing services saving 100% of expected operational costs.
- Served as Team-lead on a cybersecurity infrastructure hardening project which covered the enterprise network, business application servers, databases, web, and mobile applications for a Leading Insurance firm. Creation of security profile dashboard based on analysis and aggregation of vulnerability data of the assets within the client's inventory.
- Served as Team-lead on multiple IT risk assessments for leading financial institutions in which business processes were evaluated and benchmarked against market-leading standards such as ISO/IEC 27001 and COBIT in addition to analysis and validation of general ledgers based on database records.
- Served as a Team-member on a UX review and assessment project for multiple banks. Investigation and analysis of banking service accessibility and availability on alternative banking channels and aggregation of results into customer experience scorecards.
- Served as a Team-member and vulnerability researcher on multiple Enterprise-Wide penetration tests consisting of Network infrastructure, web, and mobile application tests for clients across multiple industries. Development of data leakage exploits to highlight risks of compromised systems. Auditing and analysis of enterprise infrastructure configuration errors. Creation of security profile dashboard based on vulnerability data of information processing assets within client inventory.
- Facilitation of internal and client-facing Information Security and Data Analytics workshops.

Skills & Abilities

- Software Development (Python, JavaScript, Git, Php)
- Database Design and Management
- Machine Learning and Natural Language Processing (NLTK, Spacy, Scikit-Learn, TensorFlow)
- Data Analysis and Modelling (Excel, Power BI, SQL, R, Pandas)
- Data Engineering and Big Data (Apache Spark)
- Penetration Testing (Infrastructure, Web, Mobile)
- Computer Networking and Security
- Risk Assessment and Process Optimization
- Project Management

Strong Working Knowledge of: Linux, Java (Spring framework), Scala, Go, Docker, Algorithm Design, Streaming (Apache Kafka), Apache Airflow, ETL, Cloud Computing (AWS, Heroku, Azure), Malware Analysis.

Certifications

- Certified Information Systems Auditor - (Qualified)