

# Olumide Omololu

Product-Focused Security-Oriented Data-Driven Software Engineer

oamololu@gmail.com | +447946348448 | [olumideomololu.github.io](https://olumideomololu.github.io) | [linkedin.com/in/olumide-omololu-711874102/](https://linkedin.com/in/olumide-omololu-711874102/)

## EDUCATION

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### Master of Science (MSc), Computer Science

September 2020 – September 2021

*University of Nottingham*, Nottingham, UK

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

Thesis: Fake News Classification via Hybrid Feature Selection

### Bachelor of Engineering (BEng), Computer Engineering

September 2011 – June 2016

*Covenant University*, Ota, Nigeria

Relevant Coursework: Software Engineering, Object-Oriented Programming, Computer Networking, Computer Architecture

Thesis: Fish Classification Using Artificial Neural Networks

## WORK EXPERIENCE

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[olumideomololu.github.io/#projects](https://olumideomololu.github.io/#projects)

UK

*Individual Contributor/Developer*

December 2021 – Present

- Design and Implementation of analytically driven investment management and monitoring solutions. Independent Research and Incorporation of web scraping, sentiment and time-series analysis into web service implementation.

### KPMG

Lagos, Nigeria

*Technology Consultant (Cybersecurity and Revenue Assurance)*

September 2018 – September 2020

- Developed social engineering simulator software using the flask framework with credential logging functionality for use in information security awareness assessment thereby eliminating reliance on third party and vendor-provided information security testing services saving 100% of expected operational costs.
- Cleaned and analyzed transaction data on maintenance charges spooled from enterprise databases to ensure accurate revenue reporting via the design and implementation of a data analysis pipeline to simulate charge consolidation operations over a financial year. Assessed business processes, infrastructure and applications using market-leading standards.
- Performed extensive application and infrastructure penetration tests to ascertain enterprise security standing.

## PROJECTS

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### Question Answering Chat-bot

- Utilized term-document modeling and cosine similarity to implement a small-talk capable chat-bot based on a question-and-answer database using the nltk, numpy and scikit-learn Python libraries.

### Traffic Violation Database

- Designed a web application that effectively records traffic violations and associated data such as fines and personal data using PHP and MySQL.

### Cryptocurrency Price Forecasting via Big Data Analytics

- Utilized Apache Spark's streaming linear regression feature to forecast changes in Ethereum's price over specified time windows based on data ingested from the Yahoo finance API.

### 2D Space Shooter Game

- Utilized the Pygame library and open-source graphics in the collaborative development of a 2D space shooter with adjustable difficulty settings.

## TECHNICAL SKILLS

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**Languages:** Python(Flask, PyTorch), Java (Spring), SQL, JavaScript (React), C, Go.

**Concepts:** Software Engineering, SOA, Test-Driven Development, System Design, Database Design and Management, Cloud Computing, Machine Learning, Natural Language Processing, Data Engineering, Data Analysis and Modeling, Penetration Testing, Computer Networking and Security, Malware Analysis, Project Management, Information Risk Analysis.

**Platforms and Tools:** Linux, Docker, Git, Redis, RabbitMQ, Apache Spark, Windows Server, Amazon Web Services, Heroku.