

Michael Chinaka

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EDUCATION

BSc (Hons) in Computer Science and Artificial Intelligence | Loughborough University | 2020 – 2024

- **Grade: 1st**
- **Modules:** Object-Oriented Programming (1st), Data Mining and Machine Learning (1st), Software Engineering (1st), Web Programming (1st), Databases (1st).

WORK EXPERIENCE

Full Stack Software Engineer (Contractor) | Upswing | London, UK | Aug 2024 - Present

- Develop full-stack solutions, designing and implementing systems using React, Flask, and other modern frameworks.
- Oversee cloud infrastructure, handling AWS deployments and managing the organisation's GitHub repositories for streamlined development workflows.
- Engage directly with clients, gathering requirements, providing technical consultations, and advising on AI-driven solutions to meet business needs.

Data Analyst | Wimbledon Championships | London, UK | July 2023 - July 2023

- Extracted and analysed historical tennis data using advanced SQL queries to deliver actionable insights.
- Contributed to **200+** match analyses, key stats, and match insights for media, broadcasters, and the Wimbledon website.

Software Developer Intern | IBM | London, UK | July 2022 - July 2023

- Developed a simulation framework using Bash and Java, enabling comprehensive regression testing on AI algorithms for our Event Analytics software.
- Contributed to **22** feature enhancements and resolved **15** security flaws, ensuring product reliability and compliance.
- Delivered multiple product demonstrations to stakeholders, honing presentation and communication skills.

PROJECT EXPERIENCE

Event Analytics Simulation Framework (IBM) | Java | Bash | Docker

- Automated ETL pipeline to replicate customer event analytic data, reducing replication and simulation times by up to **87.5%**.
- Built a Java tool for in-depth analysis of AI training results, using hierarchical object-oriented data structures and ensuring system robustness through JUnit testing and error handling.

Premier League Results Predictor (Dissertation) | Python | Machine Learning | AWS | Pandas | Matplotlib | Seaborn

- Built a predictive model achieving **58%** accuracy on Premier League matches, earning a **1st Class dissertation grade**.
- Developed a full data pipeline: web scraped **1000+** matches, preprocessed with Pandas, optimised models with Scikit-learn, and evaluated performance with Matplotlib and Seaborn visualisations.
- Deployed a website with Streamlit, hosted on an AWS EC2 with GitHub Actions CI/CD automation.

TECHNICAL SKILLS

- **Programming & Development:** Java, Python, JavaScript, HTML, CSS, Unix, Bash Scripting, Flask, React, REST API
- **Cloud & DevOps:** AWS, Docker, Terraform, CI/CD, Git
- **Data & Machine Learning:** SQL, NoSQL, Apache Spark, PyTorch, Scikit-Learn, Matplotlib, Seaborn

LEADERSHIP AND CERTIFICATIONS

- 1st Team Football Vice-Captain | Led team to first Silverware in 4 years
- International Student Ambassador | Led campus tours of **~20** and held talks to promote university
- **Certifications:** Agile Crash Course: Agile Project Management (Udemy), Python for Data Science (Cognitive Class), Docker Essentials (IBM), Spark Fundamentals II (IBM)