CHOMBA MUMBA

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EDUCATION

Loughborough University

BSc Computer Science
Second Class Honours (2:1) | 2020 – 2024

- **3rd Place |** HackLboro
- Led coding workshops for **50 participants** tailoring sessions to varying skill levels.
- Managed time between academic responsibilities, part time work and being powerlifting team captain driving a **130% increase** in club membership.

CERTIFICATIONS

Amazon Web Services (AWS) - Solutions Architect Associate

COURSES

Software Engineering
Cloud Computing
Distributed Systems
Object Orient Programming
Advanced AI methods
Data Mining and Machine Learning
Cyber Security
Cryptography and Network Security

SKILLS

Software Development Life Cycle - Agile Software Development, Waterfall
Programming - Python, React, Node.js, Vue.js, Java, C++, PHP, HTML, CSS, SQL
Cloud Computing - AWS, Microsoft Azure, Google Cloud Platform, Terraform
Machine Learning - TensorFlow, scikit-learn, PyTorch
Testing - Jest, Mock objects
Version Control - GitHub, Git

INTERESTS

Piano - Currently playing to a **Grade 4** level.
Powerlifting - **2nd Place** at the 2023 **British University Championships**.
Golf - **Co led** the construction of a golf practice range on the school campus. Playing off a 15 handicap.

PROFESSIONAL EXPERIENCE

Cloud Engineer

Head In the Clouds Consulting | 07/2024 – 10/2024

- Automated and optimised cloud infrastructure on **Amazon Web Services (AWS)** using Terraform and GitHub Actions, improving scalability and deployment speed.
- Proactively used Terraform to manage and automate scalable cloud infrastructure.

Platform/Software Engineer

Uniper | 06/2022 – 09/2023

- Developed, optimised and deployed a computer vision-based software facilitating a **£50,000** reduction in site-maintenance costs.
- Communicated and collaborated closely with stakeholders to gather requirements and develop a solution.
- Designed and implemented CI/CD pipelines on Microsoft Azure for scalable production systems, ensuring **99.9%** uptime and seamless deployments.
- Managed containerised microservices deployed with Docker and orchestrated through Kubernetes on Unix-based virtual machines, ensuring efficient performance and system reliability.

PROJECTS

Stock Market Prediction Using Neural Networks

Python | Machine Learning | TensorFlow | Docker | Pandas
Driven by a strong interest in financial markets, researched and developed neural network-based machine learning models to forecast FTSE 100 prices.

- Integrated market theories such as the Efficient Market Hypothesis to inform model accuracy, leading to a **1st Class** project grade.
- Deployed and managed a containerised micro-service on an **AWS EC2** instance to simplify and automate data collection.

Cloud Resume Challenge with Stock Prediction Integration

React | AWS | Terraform | Machine Learning

- Developed and deployed a serverless web application on AWS to display stock market forecasts powered by a machine learning model.
- Automated workflows for unit testing services and infrastructure deployment with **Terraform**.

Administration System Update

JavaScript | TypeScript | HTML | CSS | Node.js | Vue.js | Git | Flask

- Enhanced system usability by updating the application's frontend, while adhering to internal version control standards.
- Developed robust backend APIs using **Flask** to support the web application, ensuring high performance and scalability.