MICHAEL MCFEAT

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PROFESSIONAL SUMMARY

I am a highly driven graduate from Warwick University seeking a software or data engineering role. I am constantly looking to broaden and improve my skill set through projects and certifications.

EDUCATION

AiCore, Date Engineering Specialisation   Sept. 2023 - Present
- **Data & Cloud:** Python (Pandas/Numpy), WebAPIs (FastAPI), SQL, AWS (IAM/CLI/EC2/S3/API Gateway)
- **Advanced:** Data Pipelines, Kafka, Apache (Spark, Airflow), Pyspark, MSK, Databricks

Graduate of Electronic Engineering (2:1), Warwick University   Sept. 2019 - Oct. 2022
- **Modules:** Computer Architecture (C), Digital Systems Design, Signal Processing

St. Olaves Grammar School, A Levels: [A, A, B] (including Maths and Physics)   Sept. 2012 - July. 2019

CERTIFICATIONS

Microsoft Azure Fundamentals (AZ-900) [865]   March 2023
CCNA: Introduction to Networks [98.9%]   Jan. 2023

PERSONAL PROJECTS

Food Delivery Service Platform   **Skills:** Python, Javascript, RESTful APIs, Databases, Authorisation
GitHub
- **Backend:** Python FastAPI, PostgreSQL with ORM, and Redis for a real-time application.
- **Authentication:** Configured OAuth2 authorisation with JWT tokens, bcrypt hashing, and payment gateways.
- **Frontend:** Designed a responsive user-friendly interface with React and WebSocket for real-time updates.

Azure Monitor Project   **Skills:** Python SDK, Microsoft Azure, VM, Data Analysis
GitHub
- **Cloud Monitoring:** Python SDK solution using Azure Monitor for VMs' performance metrics.
- **Data Analysis:** Analysed metrics using Python Pandas for CPU usage, memory utilisation, and response times.
- **Visualisation:** Presented the analysed data visually using the 'Matplotlib' Python library.

UNIVERSITY PROJECTS

Dissertation: Artificial Neural Network Model for "sensorless" control   May - Sept. 2022
- **Real-time Modelling:** Estimated air flow and pressure dynamically using ANN.
- **Control Methods:** Implemented both scalar and vector methods for accurate estimates.

Engineers in Business Fellowship Startup Winners   Jan. - June 2021
- **Leadership:** Spearheaded SALUTEM for a Bluetooth-controlled ingestible capsule concept.
- **Plan Development:** Addressed financial, regulatory, and legal factors comprehensively.
- **Achievements:** Secured £1,500, mentorship, promotional aid, and EIBF Grand Final invitation.

Land Rover 4x4 RC Challenge: Ranked 2nd in UK   July 2018
- **RC Car Design:** Showcased LED light calibration, 4-wheel drive, and electronic suspension.
- **Control System:** Managed all features through Arduino MCUs for efficient performance.

EXPERIENCE

Nightshift Warehouse Operative   Jan - August 2023
Tesco   *Croydon*

Software Engineer Virtual Experience   March - April 2023
Blackbird   *Remote*
- Developed a React application, maintaining code repositories using Git CLI.
- Architected a low-cost, high-performance system using AWS products for optimal cloud infrastructure.