MICHAEL MCFEAT

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PROFESSIONAL SUMMARY

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

EDUCATION

Graduate of Electronic Engineering (2:1), Warwick University — Sept. 2019 - Oct. 2022
- Relevant Modules: Computer Architecture (C), Digital Systems Design (FGPA), Signal Processing (MATLAB)
Secondary School, St. Olaves Grammar School — Sept. 2012 - July. 2019
- A Levels: A, A, B (including Maths and Physics)

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

MATLAB Neural Network Model for "Sensorless" Control of a Centrifugal Fan — May - Sept. 2022
This project involved designing "sensorless" control methods through estimating key parameters for a centrifugal fan, which utilised real-time system modelling, rapid control prototyping, and Artificial Neural Networks (ANN). The MATLAB ANN model estimated air flow rate and pressure through scalar and vector control methods.

Engineers in Business Fellowship (EIBF) startup Competition Winners — Jan. - June 2021
I spearheaded team SALUTEM to develop the bioengineering startup proposal, which centered on a Bluetooth-controlled ingestible capsule for drug delivery and environmental sensing. The comprehensive plan addressed financial, regulatory, and legal aspects, earning a £1,500 cash prize, expert mentorship, promotional support, and an invitation to EIBF's Champion of Champions Grand Final.

Land Rover 4x4 RC Challenge: Ranked 1st Place Regionally and 2nd Place Nationally — July 2018
Designing and developing a Remote Controlled (RC) car for the Land Rover 4x4 In Schools Technology Challenge, which showcased our teamwork, technical skills, and innovation. Key features included LED light calibration, a tilt switch buzzer system, a 4-wheel drive system, and electronic suspension adjustment, all controlled through Arduino MCUs.

EXPERIENCE

Nightshift Warehouse Operative — Jan 2023 - Present
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.