

MAYA C. UMEH

Computer Science (Artificial Intelligence) Student | Data, AI and Technology

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PROFILE

Computer Science (AI) student at the University of Hertfordshire, predicted a First, who works with real data every week. In my part time role at Hertfordshire Students' Union I clean and analyse large survey datasets in Python and build the charts that go into stakeholder reports. I completed Bright Network's Internship Experience UK on the Data and AI track, and I have built an ESP32 IoT gate system and the core class hierarchy of a team Java application. Seeking a graduate role in technology, data or AI where I can keep building and learning fast.

PROJECTS

- AI Safety Gridworlds** | *Python, Reinforcement Learning* Apr 2026
- Implemented **reinforcement learning gridworld environments** in Python, each enforcing a different agent safety constraint
 - Trained agents with different policies and analysed where their behaviour **diverged from expected safe behaviour**
- Smart Gate Control System** | *C++, ESP32, Wokwi, IoT* 2025
- Designed and built an **automated gate** using an ESP32, PIR motion sensor, pushbutton override and servo motor
 - Simulated the full circuit in **Wokwi** first, then wrote the embedded C++ logic and refined it through structured debugging and testing
 - Wrote a formal technical report covering design decisions, test cases and evaluation
- Network Configuration Labs** | *Cisco Packet Tracer, Linux* 2025
- Configured routed networks with **RIP, DHCP and VLANs** in Cisco Packet Tracer; scored **87%** on the assessed coursework
 - Set up and configured an **Ubuntu Linux** virtual machine from scratch and documented every step and test result
- Item Sharing Association Library System** | *Java, OOP, Git, GitHub* Jan 2026 to Apr 2026
- Built the **core item class hierarchy** (abstract Item base class with Book, DVD and Magazine subclasses) that the rest of a four person team built on
 - Used **inheritance and polymorphism** so new item types could be added without changing existing code

EDUCATION

- University of Hertfordshire** 2024 to 2027 (expected)
- BSc (Hons) Computer Science (Artificial Intelligence) with Foundation Year* | Hatfield, UK
- Predicted **First Class Honours**
 - Relevant modules: AI Foundations, Software Engineering, Object Oriented Programming (Java), Operating Systems and Networks, Computing Things (IoT). Year 3: Robotics, AI Project
 - Final year AI Project (planned): real time computer vision to detect post surgery pain in dogs from facial expressions
- Nicholas Breakspear Catholic School** 2021 to 2023
- GCSEs including Mathematics (7) and English Language (6)

EXPERIENCE

- Hertfordshire Students' Union** 2025 to Present
- Advice and Insights Assistant (part time)* | Hatfield, UK
- Clean and prepare **large student survey datasets in Python**, fixing missing values, duplicates and inconsistent formats so the data can be trusted
 - Analyse responses with **Python and Excel** (pivot tables, lookups) to find trends, and build the **charts and dashboards** used in stakeholder reports
 - Handle **confidential student data** and a high volume of queries by phone, email and in person
- Bright Network** Jun 2026
- Internship Experience UK: Data and AI track* | Remote
- Validated and analysed a dataset of **5,000 telemetry readings** from offshore wind turbines in **Python**, flagging turbines that crossed temperature and vibration thresholds for maintenance
 - Wrote a report presenting my findings and recommending a **real time data streaming approach** for monitoring turbine health

CERTIFICATIONS

Diploma in Data Analysis Fundamentals · Cyber Security Awareness Training · Microsoft Excel 2021 · VLOOKUP: Mastering Excel Formulas · Microsoft Access · Microsoft Office Suite (*Reed, Coursera*)

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL (basic)
Data and AI: Python data cleaning and analysis, reinforcement learning, Excel (pivot tables, VLOOKUP), AI foundations
Tools and Networking: Git, GitHub, Linux (Ubuntu), Cisco Packet Tracer, ESP32, Wokwi, Microsoft 365, TCP/IP, RIP, DHCP, VLANs

Full right to work in the UK. Open to relocating anywhere in the UK.