Callum Cummins

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PROFESSIONAL SUMMARY

Adaptable Computer Science graduate with strong Python skills and hands-on experience developing AI-driven applications, including building predictive ML models for real-world use cases. Skilled in data wrangling, model training, and deployment with tools like scikit-learn, PyTorch, and Phpml, I bring both technical ability and a collaborative mindset to deliver impactful solutions. Eager to contribute fresh ideas and support scalable AI projects within Adria Solutions' growing team.

EDUCATION

BSc Keele University**, Computer Science**   Sep 2021 - July 2025
Grade: **First Class Honours**
Key Modules: Software Development Management, Advanced Databases and Applications, Communications and Networks, Computational and Artificial Intelligence
Dissertation - Gym Goer Web App: Developed a full-stack fitness tracking application with predictive ML capabilities, achieving 4.2/5 user satisfaction and 90% recommendation rate.

BTEC Coleg Cambria**, Level 3 Extended Diploma in IT**   Sep 2019 - July 2021
Grade: **Merit, Merit, Distinction (MMD)**

GCSE Argoed Highschool, Mynnd Isa, Flintshire   Sep 2013 - July 2018
Achieved 9 GCSEs, including Mathematics, Double Science Award, French and English Lit

SKILLS

- **Programming & Development:** Python, JavaScript, PHP, Java, SQL, HTML/CSS, React and familiarity with TypeScript
- **AI & Machine Learning:** Model training, performance optimisation, scikit-learn, PyTorch, Phpml, BERT.
- **Web Development:** Tailwind CSS, Chart.js, RESTful APIs, AJAX, responsive UI, and database design (MySQL).
- **Cloud & Tools:** Git, Google Cloud, XAMPP, Composer, Agile/SCRUM and training AWS certification.
- **Soft Skills:** Problem-solving, adaptability, teamwork, communication, and time management.

PROJECTS

Gym Goer Web App (Dissertation) - Repo
Stack: PHP (PHPml), HTML, Tailwind CSS, JavaScript, Chart.js and SQL (XAMPP)
- Created a custom AI model using Phpml (SVR/Linear regression) to predict future progress on exercises.
- Implemented multiple APIs such as Google Maps and OpenWeather.
- Iterated through Agile sprints based on user feedback, resulting in a 4.2/5 user satisfaction rating and 90% of testers endorsing public release.

Phishing Email Detector - Repo
Stack: Python, PyTorch, BERT, Tkinter, Pandas, OCR, Hugging Face
- Developed a Tkinter GUI that fine-tunes BERT on CUDA GPUs (mixed precision) to classify phishing vs. legitimate emails, accepting clipboard (copy and paste), or screen OCR input
- Engineered end-to-end data pipeline with Pandas, scikit-learn and Hugging Face Trainer
- Achieved 97.7% validation accuracy (0.98 precision, 0.97 recall on phishing class) on 3.7K+ samples

Movie Explorer – Repo | Live Demo
Stack: React, Vite, Tailwind CSS, JavaScript, OpenAI API, TMDB API, Axios, Vercel
- Built a responsive web app that fetches trending and top-rated movies using the TMDB API.
- Integrated OpenAI GPT-3.5 to generate real-time AI summaries for each movie.
- Implemented a modern interface with Tailwind CSS, React Router, and component-based design.

Online Grocery Web App (Web Development coursework) - Repo
Stack: HTML, Tailwind CSS, JavaScript, PHP, SQL, JQuery, AJAX
- Developed a multi-page full-stack grocery store application with secure user authentication and role-based access.
- Implemented order management, dynamic product filtering, and a RESTful API for managers to view order details.
- Added SEO enhancements, responsive design, React-based validation, and CAPTCHA.

CERTIFICATES

- Exploring Artificial Intelligence: Use Cases and Applications, AWS Training & Certification (Aug 2025)
- Getting Started with Natural Language Processing, Codecademy (Aug 2025)
- Learn Prompt Engineering, Codecademy (Aug 2025)
- Python (Basic), HackerRank (Aug 2025)

WORK EXPERIENCE

Summer Labourer, Buckley - Self Employed Handyman (Family Business)   Summers 2021 - 2024
- Assisted my uncle with construction and landscaping projects including patios, fencing, and general repairs.
- Followed safety procedures and communicated effectively to meet client specifications.
- Developed problem-solving skills through adapting to on-site challenges.

ATS, Flint - Apprentice (Traineeship)   Mar - Aug 2019
- Handled workshop organisation, customer tyre checks, and inventory sorting. Maintained high cleanliness and attention to safety.

Poundstretcher, Mold - Store Assistant   Jan - Mar 2019
- Assisted customers, restocked products, and ensured accurate pricing and placement.

Chrysalis Pets, Buckley - Store Assistant   July - July 2017
- Maintained animal care standards, restocked inventory, and handled customer queries.

EXTRACURRICULAR ACTIVITIES

- **Member, Keele Men's Football**
  Developed teamwork and leadership skills through regular matches and training.
- **Bouldering**
  Competed in university bouldering events, honing problem-solving and resilience.
- **Volunteer Programming Tutor**
  Taught local students basic programming in languages like Python and HTML/CSS

REFERENCES

Available on request