Cameron Kilgore

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Profile

Computer Scientist with a passion for technology and a proven track record of leading projects and managing stakeholders across diverse sectors, including technology, finance and education. Skilled in software development, human-computer interaction, and data analysis, with expertise in machine learning, I excel in solving complex problems and delivering high-quality solutions. With experience in program management, technical operations, and tax, I bring adaptability and a results-driven approach to every role. I aim to further my career in technology by leveraging my skills to deliver impactful and innovative solutions.

Education

BSc in Computing Science (First Class Honours), University of Glasgow **June 2024**

Fully accredited by the British Computer Society and The Chartered Institute for IT.
Course Highlights: Computer Systems, Databases, Human-Computer Interaction, Object-Oriented Software Engineering, Computer Networks, Mobile and Web Application Development, Algorithms, Computer Vision and Machine Learning.

Technical Skills

Technologies: Git, Django, IoT, Arduino, Android SDK, ServiceNow, Azure, PowerBI
Languages, Frameworks & Libraries: Python, SQL , Java, C, JavaScript, React.js, C#, HTML/CSS
Method: Agile Development, Scrum, Test Driven Development, IT Service Level Management (ITIL), Object Oriented Design, Application Design, Machine Learning, Deep Learning, Computer Vision.

Professional Experience

Program Manager Intern, Amazon, London **June 2024 – November 2024**

Worked in the EU ROC Performance Improvement Team within Amazon Transportation Services (ATS), leading projects to optimize the EU transportation network.

1. Using SQL, ETL Manager, and QuickSight, I created dashboards to visualize transportation metrics, conducted in-depth data analysis to identify inefficiencies and disruptions, and implemented reactive solutions to streamline processes and improve workflows.
2. I developed real-time Python scripts to audit transportation data, flagging EU-wide disruptions and ensuring timely resolution of issues impacting the network.
3. I implemented proactive JavaScript tools that enhanced compliance on Amazon's transportation platform, introducing features to prevent potential disruptions before they could occur.
4. Designed and released plans for tools I created and managed the roll out of the projects, analysing data from teams of transportation specialists to evaluate the effect of my tools across the network.

Some of these projects had entitlements of over £10MM, demonstrating the scale and operational impact of my work. The solutions resolved long-standing challenges, driving improvements in both efficiency and satisfaction across the network.

Quantitative Sector Lead, Glasgow University Trading and Investment Club Fund **February 2024 – June 2024**

Led the development of quantitative trading strategies by leveraging statistical models.
Provided training and guidance to Quant Analysts within the GUTIC Fund, including teaching quantitative analysis techniques, financial modelling, and Python for financial analysis.

Assistant Demonstrator, University of Glasgow **September 2023 – June 2024**

Main Programming language in courses: **Python**

- Introduction to Computational Thinking COMPSCI1016
- 1PX (Alternate Route) COMPSCI1017

Provided hands-on lab support, guiding students through exercises and troubleshooting programming issues.
Simplified complex programming concepts for students, enhancing their problem-solving and debugging skills.
Fostered a supportive learning environment, encouraging perseverance and innovation in computational thinking.

Technology Operations Intern, Student Loans Company, Glasgow **June - September 2023**

Worked with the Service Management, Performance Reporting, Performance Improvement teams to produce over 25 automated dashboards, covering nearly all technology services within the organization.
Created reports on tech innovation and technologies used within the company, as well as weekly incidents using Power BI and Service Now. Main project was conducting reviews on the company's Service Level Agreement coverage, creating ServiceNow dashboards as part of the Service Management Team. In deep diving into the company's data, I managed to find key information about the reporting calculations and how the data needed to be filtered before population into charts.
Courses completed (Pluralsight): IT Governance Foundation, Azure Fundamentals Course, Microsoft Power BI Course

Sensing and Imaging ML Team project, CENSIS, University of Glasgow **September 2022 – March 2023**

Used Agile team organisation to deliver a product to a non-profit organisation specialising in sensing and imaging. The project consists of using machine learning algorithms to categories sounds from a microphone used in social housing to protect those living there. As Scrum master, led, trained, and coached the team in scrums. Assisted in writing C and Arduino code for our ESP32 and other devices, using libraries to configure the microphone and calculate FFTs from data taken from a microphone.

Tax Assistant, RSM, Edinburgh **August 2018 – December 2019**

Prepared tax returns and computations for a portfolio of individuals, trusts, and companies, ensuring accuracy and compliance with regulations. This involved managing complex financial data and liaising with key stakeholders to meet deadlines and address any queries. Additionally, I conducted anti-money laundering inspections to assess risks and maintain regulatory compliance, contributing to the integrity of client operations.

Completed Foundation Diplomas in Business Taxation and Personal Taxation (Association of Taxation Technicians)

Additional Interests

Music and Drama

I have been performing since the age of 6 and have been on stage as a principal performer as well as chorus member at some of Edinburgh's largest theatres. Taking part in theatre has developed my confidence in working with others and has also enhanced my ability to perform well under pressure, especially when singing to large audiences.

Machine Learning Public Speaking Coach (Dissertation Project)

Conducted research using machine learning to rank public speeches based on audio features. (e.g. average pitch). Created a web application allowing users to record/upload their speeches for analysis, using Django, HTML/CSS with Bootstrap 5, and deployed on PythonAnywhere. Awarded an A3 (79-84%) grade for my project and started writing a paper for conference.

Hackathon Achievements:

2024 Amazon GenAI (Internal) Hackathon 4th Place

Our six-person team's idea was chosen among the top 25, earning us an invitation to present at a live event in London, where we placed 4th. I led the technical team, to develop a prototype for demonstration and an create an internal plan to expand the idea.

2023 CENSIS/Quorum Cyber: Secure futures for Healthcare Technologies: Ideas Hackathon 1st Place

Working in a small team I Implemented machine learning algorithms in python to detect cyber-attacks using Wireshark data.

2022 and 2023: Consecutively 1st Place in the GUTS Hackathon for Verint Systems.

2023: as part of a 3-person team, I developed a Unity game motivating eco-friendly lifestyle changes.

On GitHub: Unity WebGL Player | PocketEarth (mathieson.dev)

2022: as part of a 5-person team, I created a Unity game in C# with the goal "creating a fun game that can be played by anyone."

Game final state live: GitHub - space928/CheeseRoundup: An exciting game with cheese