Cameron Kilgore

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Profile

Final Year Undergraduate Computer Scientist with a passion for technology, key strengths in analysis and problem solving with proven experience in building successful team relationships.

I have technical experience in software development, HCI and data analysis/manipulation including machine learning. With commercial experience developed within Technical Operations and Accountancy, I am confident in working independently, consistently delivering high-quality work, and am now seeking to develop my career within Technology.

Education

BSc Honours in Computing Science, University of Glasgow Predicted Grade 2:1 2024
Programme is fully recognised by the British Computer Society and The Chartered Institute for IT. Studies include computer systems, databases, and human-computer interaction alongside areas of object-oriented software engineering, algorithms, computer networks, mobile/web application development and machine learning.

Technical Skills

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

Professional Experience

Program Manager Intern, Amazon, London June 2024 – November 2024
Working within the Amazon Transportation Services Team on a Project to improve efficiency.

Quantitative Sector Lead, Glasgow University Trading and Investment Club Fund February 2024 – June 2024
Lead the development of quantitative trading strategies by leveraging statistical models.
Also provide training and guidance to Quant Analysts within the GUTIC Fund. This involves teaching them quantitative analysis techniques, financial modelling, and how to use 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

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

Technology Operations Intern, Student Loans Company, Glasgow June - September 2023
Worked with Teams: Service Management, Performance Reporting, Performance Improvement
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:

- IT Governance Foundation, Pluralsight
- Azure Fundamentals Course, Pluralsight
- Microsoft Power BI Course, Pluralsight

Sensing and Imaging ML Team project, CENSIS, University of Glasgow September 2022 – March 2023
Used Agile team organisation to deliver a product to CENSIS, a non-profit organisation specialising in sensing and imaging. The project consists of using machine learning algorithms to categories sounds from a microphone and sensor that will be used in social housing to protect those living there from antisocial behaviour and fires. I had the role of Scrum master within my team. I lead, trained, and coached the team in our scrums. I also helped in writing the C and Arduino code for our ESP32 device using libraries to configure the microphone and calculate FFTs from data taken from a microphone.

Tax Assistant, RSM, Edinburgh August 2018 – December 2019
At RSM I worked on preparing tax returns and computations for individuals and trusts. I also worked with companies in the preparation of their tax returns/computations as well as payment schedules. I also was responsible for conducting anti money laundering inspections to determine risks involved in doing work for our clients. Qualifications completed below.

- Foundation Diplomas in Business Taxation ATT (Association of Taxation Technicians)
- Foundation Diploma in Personal Taxation ATT (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)

For my final year project, I conducted research on using machine learning to rank public speeches based on audio features extracted (e.g. average pitch). I then created a web application that allows users to record/upload their speeches and gain valuable insights. I developed my web app using Django, HTML/CSS with Bootstrap 5 and deployed a demo of this using PythonAnywhere as a server host: Speech Analysis Project (2545084k.pythonanywhere.com).

Hackathon Wins

2022 and 2023: Consecutively won the GUTS Hackathon for Verint Systems.

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: Unity WebGL Player | PocketEarth (mathieson.dev)

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

On GitHub: GitHub - space928/CheeseRoundup: An exciting game with cheese

Working in a small team I won the Verint/CENSIS Secure futures for healthcare technologies: ideas hackathon. I used machine learning algorithms implemented in python to detect cyber-attacks using Wireshark snapshots. I excel in a team environment and able to take up leadership roles when required.