

Iain McLaughlan

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Summary

Highly skilled software developer with expertise in social media monitoring, real-time data analysis, and cross-platform mobile app development. Proficient in a range of programming languages and tools including Python, Dart/Flutter, and C#.NET. Experienced in leading development teams and collaborating with cross-functional teams to deliver high-quality software solutions.

Technical skills

Proficient in Python and R for data manipulation, analysis and visualization.

Experienced in C#.NET for API development.

Skilled in Dart/Flutter for cross-platform mobile app development.

Experienced in database management and SQL.

Expertise in real-time data analysis and interpretation.

Data analysis and visualisation

Skilled in developing data pipelines and algorithms.

Experience in creating interactive dashboards and visualizations using tools like Tableau and Power BI.

Experience in managing multiple projects simultaneously.

Project management

Ability to prioritize work and meet deadlines in a fast-paced environment.

Strong communication skills to collaborate with cross-functional teams and stakeholders.

Programming languages

Python, Flutter/Dart, C#.NET, Golang, R, SQL, and LaTeX.

Employment

Software Developer

Edinburgh, Scotland

CAPITA

2022 - Present

- Epic lead for the development of the company's first cross-platform mobile app using Dart/Flutter, resulting in increased user engagement and expanded market reach.
- Designed and implemented APIs in C#.NET for frontend applications to interact with the social media monitoring service.
- Developed backend services in Python to manipulate and transform data collected from various social media platforms into a usable format for users.
- Updated the authentication system to support JWT tokens and implemented two-factor authentication, enhancing security and user privacy.
- Researched and identified new data sources to enhance the service's coverage and accuracy in tracking social media conversations.
- Collaborated with cross-functional teams, including product management and data science, to ensure seamless integration of new features and functionality.
- Presented new features of the product to clients and implemented user feedback to improve the user experience.

Healthcare Scientist (Epidemiologist)

UK, Scotland

PUBLIC HEALTH SCOTLAND

Mar 2021 - 2022

- Provided real-time data analytics, guidance, and public-facing information on vaccine effectiveness and failures to inform Scotland's COVID-19 response.
- Developed surveillance systems that collect and combine data from multiple streams to generate insights.
- Co-authored a scientific peer-reviewed paper published in The Lancet on the characteristics and risk of COVID-19-related death in fully vaccinated people in Scotland. (Link to the paper: [TheLancet.com](https://www.thelancet.com))
- Cleaned, prepared, and analyzed data for presentation in various formats, including written reports, presentations to executives and partners, and interactive web-based dashboards.

Information Analyst

UK, Edinburgh

PUBLIC HEALTH SCOTLAND

Nov 2019 - Mar 2021

- Produced weekly, monthly, and annual reports for the A&E team, presenting them to a range of stakeholders including the Scottish Government, media, and general public.
- Prioritised work and negotiated deadlines to meet urgent requests while delivering against ongoing tasks.
- Contributed to the development of the new Drug and Alcohol System DAISy, providing input on functionality from a data collection and analytical standpoint.
- Worked with other analysts to produce daily data for System Watch, providing real-time insights into the pressures in the healthcare system, including sharing data with HPS COVID teams.

Laser Performance Team Head Coach

UK, Scotland

RYA SCOTLAND

2017 - Present

I organise and deliver coaching sessions to the top youth (u21) sailors in Scotland. This involves communication with governing bodies, host venues and participants to organise each session. Each year I work with the sailors in the team to plan out a training program to allow them to perform at their best in the coming season and in future careers. I have to work with them to set goals, plan for contingencies, and evaluate success at all points throughout their journeys. Within this role, I have coached National championship medallists with some being invited to be part of the UK's senior Olympic pathway program.

Laser Class Academy Head Coach

UK, Scotland

RYA SCOTLAND

2018 - Present

In this role, I organise, plan and deliver open training to sailor across Scotland. I have to liaise with host venues as well as communicating with the governing body and participants to organise training sessions. I lead a team of assistant coaches that I work with throughout the year. I have the responsibility for mentoring and helping these coaches develop their own coaching abilities. We hold a regular community of practice sessions with other coaches to share our experiences and develop our own abilities. I have taken a lead role in the set up and organisation of these continued professional development sessions.

I have also had the responsibility of working with the national governing body to produce COVID secure working guidelines to allow for our safe return to providing on the water coaching sessions.

Education

B.Sc.(Hons) in Physics

UK, Edinburgh

THE UNIVERSITY OF EDINBURGH

2015 - 2019

- Achieved a B.Sc.(Hons) 2:1 degree.

SQA Qualifications

UK, Renfrewshire

GRYFFE HIGH SCHOOL

2009 - 2015

- Advanced Higher: Maths A, Physics B, Chemistry B.
- Higher: Maths A, Physics A, Chemistry A, Biology A, History A.

Extracurricular Activity

Sailing Exercises Website

UK, Edinburgh

SAILINGEXERCISES.CO.UK

2020 - Present

To help organise coaching ideas helping myself and other sailing coaches I developed a website using the Django python web framework. This site acts as a collaborative database to store and find different sailing exercises that can be searched for inspiration based on criteria such as time availability, number of participants, etc. The site has its back end developed in python with the front end built using Javascript (and Typescript), HTML5 and CSS3. The site is deployed using Digital Ocean running a PostgreSQL database. The site has various flourish add ons such as using crontab to post updates and most recent posts to Twitter daily.

Performance Sailing Experience

International

ATHLETE

2007 - Present

I am a sailor who has competed in many different types of sailing boats, in races both nationally and internationally. In the time that I have been racing, I have become a World, European, British and Scottish champion. I have been part of several performance programmes:

- UK U21 Youth squad.
- Scottish U19 Squad.
- The University of Edinburgh Individual Performance Programme.
- Supported by the Scottish Institute of Sport.

Being part of these programmes and working with the people in them is what has allowed me to achieve the success that I have. These experiences taught me how to achieve high-level targets through performance thinking and goal setting. These are skills which I apply in other areas of my life to help achieve targets.

Google Hash Code

Edinburgh

PARTICIPANT

2018, 2019 & 2020

- Developed problem solving skills under pressure with a time limit.
- Working on team coding challenges in small groups.

Hacktoberfest, DigitalOcean

Edinburgh

PARTICIPANT

2018, 2019 & 2020

- Had my first real experience contributing to open-source projects.
- Learned the basics of GitHub to allow me to help contribute to other peoples work.

Code Jam, Google

Edinburgh

PARTICIPANT

2019 & 2020

Competitive programming working with a range of different algorithms to solve challenging problems against the clock.