alasdairmacgdev@gmail.com

Alasdair MacGillivray

Profile

A data/software engineer, with academic and industry experience in software development, AI, and cloud and data engineering. They are a keen learner who excels at grappling with complex systems, at proactive teamwork, and at technical and non-technical communications.

Career Summary

2023 - Present:	Frazer-Nash Consultancy	Joined the Cloud Technologies group as an engineer.
Summer 2022:	The University of Edinburgh	Interned as a web developer in the Internal Services Group
2018 - 2023:	The University of Edinburgh	Graduated with a Masters in Informatics, 1st Class

Experience

COEUS

Worked on COEUS, a software platform designed to enable data-driven research horizon scanning. Developed AWS-based pipelines to ingest metadata from large-scale paper repositories. Utilised modern technologies such as server less computing and graph databases. Took proactive steps to improve project architecture and documentation.

Masters Thesis: Sustainability in Population Estimation

Worked with researchers from the UNICEF Data for Children collaborative. Developed methods for reducing the cost of doing population estimation with satellite imagery. This project involved novel machine learning/computer vision techniques deployed via Edinburgh University's research HPC.

ISG Helpdesk

Designed and developed a new login and permissioning system for one of Edinburgh University's key admin tools. Gathered requirements for and redeveloped a module used for generating course web pages. Intelligent client/user communication and clever application of problem solving lead to a successful delivery two complex systems.

Informatics System Design Project

Designed a wearable posture-measuring device as part of a student team project. Took 2nd place alongside their team in the yeargroup-wide industry day thanks to a strong, convincing demonstration, focus on inclusion, and well-presented technical details.

Qualifications

The University of Edinburgh, Master of Informatics (Hons), 1st Class

Microsoft Certified: Azure Fundamentals (AZ-900)

Disciplines

- Software Engineering
- DevOps
- Cloud Development
- Data Engineering
- Artificial Intelligence

Languages

- C, C++
- Java, C#
- Python
- JavaScript
- PHP
- Scala
- Haskell

Technologies

- Cloud platforms (Azure, AWS)
- Server and HPC operation (Linux, Slurm)
- DevOps (Agile practices, ADO, GitHub)
- Database principles (SQL, DynamoDB, Neo4J)
- Data science and machine learning (PyTorch, Numpy)