

Cathal Coulter

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- Portfolio- <https://cathalcoulter.com>

Education

Queen's University Belfast *2018-2023*

- BSC Computer Science with Professional Experience – Second class honours
- Modules include Cloud Computing, Data Structures and Algorithms, Software Engineering and Systems Development, Web Technologies, Object Oriented Programming, Procedural Programming, Databases, and an Individual Software Development project.

Our Lady and St Patrick's College Knock *2011-2018*

- 3 A-Levels, grades AAB
- 11 GCSE's, grades 5A*,5A,1B

Employment History

See.Sense – Data Analyst *May 2023 – Present*

- Created and maintained various lambda functions and glue tables, utilising API's to get data from a variety of sources in order to make our pipelines more efficient.
- Constructed various python scripts used by the company to access and clean data for further analysis.
- Lead the team responsible for developing embedded firmware for the See.Sense Agile bike lights, anticipated to be released early this year. This involved programming in C language for embedded systems.
- Consistently used AWS to make our Athena queries and S3 buckets more efficient, resulting in faster queries and a lower monthly cost.

- Development and maintenance of client dashboards using SQL in Athena and Quicksight.

Technical Skills

- Developmental Languages: Java, C++, JavaScript, CSS, HTML, Python, SQL, React. Also proficient in using Linux and Git.
- Cloud Experience: Rancher, Docker, Load Balancing, Kubernetes, CI Pipelining, Amplify, AWS.
- AWS has been a major part of my current role. I use Lambda, Eventbridge, Glue, S3, RDS and Athena daily for the collection and cleaning of data, and visualise it using Quicksight.
- I have experience working in an Agile team.

Projects

- University Research Project – Developed a machine learning algorithm using data analytics for the accurate prediction of colorectal cancer within a dataset. Completed using Python and utilising Pandas, SkLearn, Matplotlib and NumPy libraries for the data visualisation and building of the machine learning model.
- Cloud Computing - Created a microservice application to allow students to verify total marks, overall grades etc. published by the university. Utilised Rancher and Queen's Private Cloud, creating custom proxies and API's.
- Created To-do List and recipe apps using React and JSX in my spare time and deployed it onto AWS using Amplify. Have also created my own weather app using API's from OpenWeatherMap.
- Created a portfolio page (link at top of CV) using Javascript, React, HTML and SCSS. I deployed this on s3 and Cloudfront and used my own custom domain.
- Developed a fully functional monopoly style game to be ran on the terminal using java.

Interests and Hobbies

- Member of Ballygalget GAC and previously on the Down Senior Hurling Panel - I have represented my club and county at senior level. Playing sport my whole life has instilled in me a great deal of confidence alongside enhancing my determination and leadership skills.

- Coding – I enjoy coding in my spare time and enhancing my knowledge of the subject.
- Travel- I enjoy travelling and learning from other cultures.
- Hardware- I have a keen interest in computer hardware having built my own PC.

References

Available upon request.