

# Graham Ross

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## ABOUT

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I am a physics student at the University of Glasgow and am looking to move into a career in software development. I have developed skills in Python for data analysis while completing computational astrophysics projects and I can clearly present scientific data. I have an interest in artificial intelligence and I have undertaken multiple machine learning projects.

## TECHNICAL SKILLS

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**Languages:** Python, C, SQL, FORTRAN, JavaScript, HTML/CSS

**Frameworks:** Flask

**Developer Tools:** Git, Jupyter Notebooks, Sublime Text, Spyder

**Libraries:** SciPy, NumPy, Matplotlib

## EDUCATION

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### University of Glasgow

Sept. 2017 – Present

*BSc Physics with Astrophysics - Cumulative average: A5*

- My final year physics project aimed to make improvements to a FORTRAN program which used genetic algorithms to solve differential equations.
- My third year astronomy project involved using the Hi4Pi hydrogen emission survey to map the structure of the Milky Way and nearby galaxies. This required efficient use of HEALPix to analyse and graph large data sets in Python.

## PERSONAL PROJECTS

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### News Website | Python, Flask, SQLite

March 2021

- Developed a full-stack web application using Flask and hosted it on Heroku
- Implemented NewsAPI to obtain news articles from multiple websites
- Handled user accounts and authorisation within a SQLite database
- Used Git and GitHub for version control

### Differential Equation Solver | Python, Matplotlib, Numpy

January 2021

- Reproduced my final year project in a Python program
- Used genetic algorithms to solve ordinary differential equations
- Utilised multiprocessing to increase the speed of generating results

## EMPLOYMENT HISTORY

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### Tesco

Banchory, Scotland

*Customer Assistant*

*June 2018 - Sept 2018*

- Responsible for tracking delivery times and unloading them when required
- Providing customer assistance while helping colleagues stock shelves

### British Legion

Banchory, Scotland

*Dishwasher*

*Sept 2015 - April 2016*

- Responsible for washing all dishes and cutlery in a busy and fast paced environment
- Cleaned the kitchen at the end of every shift

## ADDITIONAL AWARDS

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### Harvard CS50

January 2021 – March 2021

*Introduction to Computer Science*

- Completed the entire online course including 10 labs, 10 problem sets and a final project
- Knowledge of data structures and algorithms in C
- Additional topics included SQL, Web applications, JavaScript