

# Max Dolan

## Personal Information

Scientific Programming and Data Science Master's student looking to progress in the field of software engineering or data science using skills in both analytical problem solving, and an understanding of the process involved in tackling more abstract questions. Recently graduated with a Bachelor's of Science in Physics and Philosophy

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London

## Links

Max Dolan  
maximillian-dolan

## Skills

- Python
- C++
- Bash
- Machine Learning Techniques
- High Performance Computing
- Peer Programming

References available on request

## Education

### Scientific Programming and Data Science, University of Bristol (MSc)

September 2023 - September 2024

- Group Project – In the process of designing a programme that will be able to use satellite data to monitor and predict the likelihood of forest fires. Developing practical data analysis and graphic communication skills
- Artificial Intelligence and Deep Learning – K-Means Clustering, Neural Networks and Decision Trees
- Software Engineering and High-Performance Computing for scientists – Version Control, Accelerated Coding and Cloud-native technologies

### Physics and Philosophy (2:1), University of Bristol (BSc)

September 2020 - June 2023

- Essential Maths for Physics – 77% - Linear Algebra, Bayesian Statistics and Multivariable Calculus
- Particle Detector for CERN's Experimental Areas – 78% - developed skills both in working with a team and also working with professionals within the field of research
- Awarded Bristol Plus award - achieved by less than 5% of graduates

## Work Experience

### PineRock, Intern

July 2023 - September 2023

- Researched the use of AI within their field of brand communications
- Presented findings and recommendations to the entire business, leading to implementation of key changes

### CERN, Research

September 2022 - June 2023

- Worked directly with researchers at CERN to develop single-photon sensitive detectors for use in high-energy particle physics experiments in various beam lines
- Worked with sufficient level of accuracy required for subatomic particle detection. Produced an intensity monitor capable of giving over 3 billion readings per second, detecting energies at a photonic level

### Various, Hospitality

January 2018 - ongoing

- Have worked within catering, bars, kitchens and doing cleaning work
- Had to be adaptive and flexible under pressure, collaborating with a wide range of people in unfamiliar environments