Samuel Gabe

Graduate with MSci Theoretical Physics degree

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Summary

Graduate from the University of Nottingham with a 2:1 Masters degree in theoretical physics looking to start a new career in the Manchester area. Excellent problem solving and mathematical skills. Experience in projects working with Python, including final year project working with a large data set to determine the evolution of the early Universe. Eager to learn new skills and able to learn quickly.

Skills

Physics background, Code development and debugging, Problem solving, Python, TensorFlow (machine learning), Matplotlib, NumPy, Pandas, SQL, WordPress, Git version control, Teamwork, Communication skills, Making mathematical models for problems

Education

MSci Physics with Theoretical Physics - *University of Nottingham, Grade: 2.1*

September 2019 - June 2023

What my degree involved

- Excellent problem solving skills: regularly had to take a physics based problem and model it in mathematical form or in code. Solved a wide array of problems, including in coding, worksheets and exams.
- Python: used Python in many parts of my degree, having completed numerous projects using it and two modules in which I scored marks of 94% and 78%.
- Self motivation and time management: completed much of the degree during the Covid pandemic. Had to rely much more on effective time management to achieve my final grade.
- Great communication skills: gave several presentations, teaching me to clearly convey ideas to an audience.
- Drive to learn: passion for learning and the ability to learn quickly. Was often given short deadlines to learn a lot of new knowledge/skills.

Projects

Completed numerous projects during university, including many where I had to use Python in order to make scientific models, analyse data and make calculations.

Final year project: Investigating the effect of clumping factor on the early Universe using large data set

- Obtained a large data set. Organised and became familiar with data set. Used Python to create different models of the early Universe, and see how the models were affected by different clumping factor models
- Had to quickly pick up the skills needed to conduct the project, e.g. cleaning and organising data and using Python to work with the data

Third year project: using machine learning to categorise cosmological data

- Given 100,000 images of galaxies and 10,000 training images. Created a machine learning model with TensorFlow and trained it, then used it to categorise the 100,000 images.
- Worked closely with project partner and supervisor to conduct the project, developing communication skills to effectively work as a team

A Levels - *Hinchingbrooke School 6th Form, Huntingdon, Cambridgeshire*

September 2017 - June 2019

- Mathematics: A*, Further Mathematics: A, Physics: A, Film Studies: B

Certifications and Projects

LinkedIn Learning: Python Data Analysis, SQL: Data Reporting and Analysis, JavaScript Essential Training, C# and .NET Essential Training, pandas Essential Training, React.js Essential Training

Project: Created a WordPress site for client CreativeMaths4All, who sell the Numberlink Board, a highly acclaimed maths tool used in primary schools. Website will go online in the coming weeks (as of 11/03/2024 their old website is still up).

Work Experience

Bartender - *The Vine Buckden, Cambridgeshire*

June 2021 - September 2021, July 2022 - September 2022

- Used multitasking skills to answer phone calls, wait tables, keep bar stocked, pour drinks, operate coffee machine and more.
- Worked in high pressure scenarios and served high customer volumes during special events (e.g. wedding receptions), nights and weekends.

Bartender - *Buckden Village Club, Cambridgeshire*

July 2019 - August 2019

Volunteer Shop Assistant - *Salvation Army, Huntingdon, Cambridgeshire*

June 2017 - August 2017