

Samuel Gabe

Graduate with MSci Theoretical Physics degree

07532 242242 • samuelgabe.work@gmail.com • [linkedin.com/in/samgabe](https://www.linkedin.com/in/samgabe)

Portfolio: <https://github.com/SamuelGabe/GitHub-portfolio>

Summary

Graduate from the University of Nottingham with a 2:1 Masters degree in theoretical physics looking to start a new career. Excellent problem solving and programming skills. Experience in projects working with Python, including project using it to model traffic flow. 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

Project: Investigating traffic flow using Python

- Used Python to investigate the effects of multiple lanes on traffic flow, comparing roads with one and two lanes. Created a mathematical model for a two lane road and implemented it using Python.
- Received a mark of 74% in this module and gained valuable experience in using Python to solve problems and model real world situations.

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 16/04/2024 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.
- Kept my cool in stressful situations and was told that I was a calming presence on the team.

Bartender - *Buckden Village Club, Cambridgeshire*

July 2019 - August 2019

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

June 2017 - August 2017