JONATHAN MARRIOTT

Bristol, UK

jonathan.marriott@bristol.ac.uk

07392 829169

github.com/JonathanMarriott

linkedin.com/in/JonathanMarriott1

Personal Summary

A committed and driven student at the University of Bristol studying mathematics and computer science. Proven written and verbal communication skills developed while working as a teaching assistant. Keen to develop further practical skills in software development to solve problems creatively.

Education

- **University of Bristol** — Bristol, UK
  Mathematics & Computer Science MEng — *2019 - 2023*
  - **First year**: Passed with mark of 84 (First Class)
  - **Second year**: Passed with mark of 76 (First Class)
- **The Sixth Form College Farnborough** — Farnborough, UK
  *A Levels: Mathematics **A***, Further Mathematics **A***, Computer Science **A***, Physics **A**** — *2017 - 2019*
- **Weydon School** — Farnham, UK
  11 GCSEs A- A, including Maths and English Language* — *2012 - 2017*

Skills

Languages Python, Java, Haskell, Javascript, HTML, CSS, C, R
Technologies Linux, Git, Github, LaTeX, Maven, SciKit-learn, Juypter

Experience

- **Teaching Assistant** — Bristol, UK
  University of Bristol Computer Science Department — *Sep 2021 - Present*
  - Sole charge of teaching weekly problems classes to 2nd year Algorithms students
  - Supporting 2nd years studying Programming Languages & Computation with coding in Haskell and theory problems
- **Committee Member** — Bristol, UK
  University of Bristol Cycling Club — *Mar 2020 - Present*
  - Collaborated with others to organize and promote cycling events for University students
  - Contributing to club discussions on inclusivity within the sport
  - Helped to run club rides for members, complying with Covid rules, introducing new members to safe cycling in groups.

Projects & Coursework

- **3D Printing DLP Post Slice Supporter Group Project** — github.com/JonathanMarriott/3DPrinting
  Analyses sliced 3D models for unsupported areas and inserts supports for them
  - I implemented multi-threading in the Java based application using OpenCV Libraries to process large files over 3x faster than the sequential version
  - Developed within an agile team of 5 people, using git branching and merging to manage feature development
- **Data Analysis Individual Project** — github.com/JonathanMarriott/DataDrivenCS
  Data Driven Computer Science Labs and Coursework
  - Used Scikit-Learn and NumPy libraries to implement maximum likelihood estimates, linear and non-linear least squares regression in practical examples. In addition to implementing some supervised and unsupervised learning models.
- **Percolation Theory Research Project**
  Individual research project on random graph percolation
  - Ongoing project involving reading current research literature for percolation, and proving results about critical phenomenon and phase transitions
  - Researching the applications of percolation theory to information flow through social networks and understanding the active paths through neural networks
- **Quiz Website Coursework** — github.com/JonathanMarriott/QuizCoursework
  Individual project creating a website to serve quizzes to users
  - Implemented the quiz application backend in Java using an MVC architecture with an SQL database.
  - Webapp frontend developed using the Bootstrap framework to create a modern interactive interface

Achievements & Interests

Duke of Edinburgh Gold, Silver & Bronze Awards All Completed
ITC Level 3 Outdoor First Aid Qualified
Road Cycling Keen recreational cyclist who enjoys competing in time trial events
Electric Guitar Avid player for over 4 years