Alex Gulliver

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BSc Computer Science student at the University of Exeter

EDUCATION

University of Exeter | *BSc Computer Science with Year in Industry* *2021 - Present*

- Data Structures and Algorithms, Artificial Intelligence and Applications, Computational Mathematics, Network and Computer Security
- Grade Average 2:1
- Computing Society, Surf Society, Skateboarding Society

Peter Symonds College *2019 - 2021*

- Mathematics, Grade A*
- Further Mathematics, Physics, Grade A

Thornden Secondary School *2014 - 2019*

- Ten GCSEs achieved: (9999999988)

WORK EXPERIENCE

Year in Industry | *Frazer-Nash Consultancy* *July 2023 - Present*

- Working in Digital Systems Assurance team focused on safety-critical systems.
- Reinforcement learning project investigating optimizing hyperparameters with Optuna and presenting findings, using Mesa for agent-based modeling simulation in order to conduct multi-agent reinforcement learning simulations.
- Assisted in the development of a set of event trees to assess accident sequences and quantify risk for complex functional systems. Attended workshops on client site and discussed with operators how accidents manifested on training facility and real product.
- Developed prototype HMI Arduino kit used for human factors analysis of a safety modification for a safety-critical system.
- Helped to create Disability Employee Resource Group which was approved by Diversity and Inclusion Steering Committee, given funding to host a yearly event and connect Frazer-Nash Employees affected by disability.

Fast Food Crew Member | *Burger King* *June 2022 - November 2022*

- Did both front-facing roles taking customer orders as well as working in the kitchen. Developed customer service and communication skills working in a fast paced environment.
- Worked in all positions including drive-thru, front counter, burger assembly, sides, grill.

PROJECTS

Streatham Quest *2023*

- Group Software Engineering Project to 'gamify sustainability on the University of Exeter's campus' with Python-based Django web development framework.
- Worked in Agile methodologies.
- Responsible for a wordsearch sustainability game.
- Achieved 67%

Maze Solving Algorithm *2023*

- Implemented A*, BFS, DFS algorithms for text-file mazes and analysed and compared their performance in Python.
- Achieved 99%

Tetris LAMP Stack Website Project *2022*

- Created a playable Tetris game, built on a LAMP Stack and deployed to an Azure VM.
- Created using HTML, CSS, JavaScript, PHP
- Achieved 86%

VOLUNTEERING

Bike Mechanic | *Bristol Bike Project* *2023 - Present*

- Contributing to local community by repairing bicycles for 'Earn-A-Bike' scheme.
- Attended workshops to develop my mechanical skills.

Shelter Volunteer | *Julian Trust* *2023 - Present*

- Volunteered during evening shifts at a shelter, helping to cook and serve hot meals.
- Organised incoming donations of clothing and distributed them on evenings to guests.

OTHER

- I enjoy hiking, cycling, watching films and cooking.