Shaun Rafael Cassini

srcassini1@sheffield.ac.uk | shauncassini.com

Education

Bachelor's & Master's in AI and Computer Science

Sep.2018 - Jul.2022

University of Sheffield

- · On track for a first class/distinction with honors
- · First class mark on my dissertation project on applied computer vision for gait analysis
- $\cdot \ \, \text{Consistently achieved high marks, including 87 in Logic, 85 in Speech Processing and 90 in Machine Learning}$

A-Levels/GCSEs

Sep.2015 - Jul.2018

Sedbergh School

- · A-levels in Maths, English Literature and French with grades AAA
- · 11 GCSEs with 5 A*s and 6 As, Grade 8 LAMBDA (Speech & Drama) award, Debating team captain

Experience

Researching Chaotic Time Series Prediction with Echo-State Networks

Sep.2021 - Present

Master's Thesis

- · Co-authoring a mathematical research project led by Dr. Joab Winkler
- · Assessing the stability of echo-state networks with matrix decomposition methods

Undergraduate Teaching Assistant

Sep.2021 - Present

University of Sheffield

· Delivering labs in introductory Java, Computational theory & Complexity, and Logic

Built a Paralellised Evolutionary Algorithm to solve an NP-Hard Puzzle

Dec.2021 - Feb.2022

Personal Project

- · Used Python & Numpy for highly efficient and vectorized programming
- · Interested in statistical methods, i.e. Monte Carlo sampling, for the runtime analysis of EAs
- · Discussed implementation, experiments and conclusions in a blog post on my website

Developed a Prototype Mobile App

Jun.2020 - Aug.2020

Free lance

- · Pitched and received funding to develop a mobile productivity app written in Angular/Ionic
- · Gained hands-on experience with the mobile software development process

Helped Create a Python Course and Presented in London

Feb.2019 - Jun.2019

Enactus Sheffield

- · Assisted with the development of Code Creators Sheffield a Python course for beginner programmers
- · Presented at ExCel London in front of 5,000 people

Robotics Engineering Internship

Jun.2018 - Aug.2018

Labman Automation

· Designed, manufactured and assembled a prototype autonomous rover

Key Skills

- Python, PyTorch, GPU CUDA programming in C, Java, Javascript, No SQL and SQL databases, Angular
- Solid mathematical and problem-solving aptitude (Linear Algebra, Probability Theory, Calculus)
- Fluent/native in English and French with strong communication, team-working and literary skills
- Creative mindset (film and music production, AAA grade certificate from Berklee College of Music)