Shaun Rafael Cassini

srcassini1@sheffield.ac.uk | srcassini.github.io

Education

MComp in AI and Computer Science Sep.2018 - Jul.2022
University of Sheffield
- On track for a first class/distinction, with a current grade of 73%
- First class 3rd year dissertation project, applying unique signal extraction methods for gait analysis on video
- Consistently achieved high exam and coursework results, including 87 in Logic, 80 in Computation & Complexity and 90 in Machine Learning coursework

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, with a grade 8 LAMBDA (Speech & Drama) award

Experience

Predicting Chaotic Time Series with Echo-State Neural Networks Sep.2021 - Present
Masters Thesis
- Exploratory mathematical research project led by Dr. Joab Winkler
- Assessing the stability of regularisation on echo-state networks using matrix decomposition methods

Teaching Assistant Sep.2021 - Present
University of Sheffield
- Helping teach labs in Java, Automata, Computation & Complexity

Freelance Web Developer Aug.2021 - Jan.2022
- Developing the website of a South Africa-based photography company (dnaphotographers.com)

Member of Sheffield Engineering Leadership Academy Sep.2019 - Jul.2021
- Attended team-working, leadership, networking and management workshops
- Built the software component of the Festival of the Mind online educational exhibition

Development of a Prototype Mobile App Jun.2020 - Aug.2020
- Pitched and received funding to develop a mobile productivity app written in Angular/Ionic
- Gained hands-on experience with the mobile software development process

Project Associate and Public Speaker Feb.2019 - Jun.2019
Enactus Sheffield
- Assisted with the development of Code Creators - a Python course for beginner programmers
- Presented at ExCel in London in front of 5,000 people

Engineer Summer Intern Jun.2018 - Aug.2018
Labman Automation
- Had an introduction to working in the robotics industry, designing a prototype autonomous rover
- Involved with 3D modelling using Solidworks, manufacturing and assembly

Key Skills

- Python, PyTorch, GPU CUDA programming in C, Java, Javascript, No SQL and SQL databases, Angular
- Fluent/native in English and French with strong communication and literary skills
- Creative mindset (film and music production, AAA grade certificate from Berklee College of Music)