DYLAN CADDICK

Computer Science

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SUMMARY

I have a drive for education and a passion towards Computer Science. This can be seen through my work on various projects, and the awards which I have subsequently received.

SKILLS

Languages: Python, Java, JavaScript, HTML, CSS, C++, SQL, Verilog, ARM

PROJECTS

Programming	**Evolution Simulation - A level coursework mark 70/70** Made in Unity with C++ for A-level coursework, achieving full marks. Involved procedural generation of a random 3D map with water and terrain. It involved the life cycle of Rabbits with basic attributes - eating, drinking and reproduction - which evolved over time. This is a very basic form of AI, representing 'Survival of the Fittest', showing a real life example of a genetic algorithm.
Programming	**UCL Short Course in Data Science with R** A national short course focused in R, in which I won the competition at the end. This used basic data analysis techniques, to check accuracy of programs using practice data. Then performing queries and predictions on a database and presenting the results in a graphical format for the user.
Programming	**Fitness Application** Made in HTML, CSS, PHP, Javascript. This application was created by a group of seven students, including myself. It helps users plan and achieve weekly fitness goals, along with providing them with basic stats. The concept involved using databases with a further aim of adding a Strava API in back-end development.

EDUCATION

09/2023 - present	**University of Manchester** Computer Science BSc	**Undergraduate Degree**
09/2021-06/2023	**Brighton, Hove and Sussex Sixth Form College** Computer Science: A*, Maths: A*, Biology: A*, AS Further Maths: A	**College**
09/2016 - 06/2021	**Dorothy Stringer (9 GCSEs)** Including: English Lit and Lang: 7 6, Maths: 9, Computer Science: 9, History: 9, Combined Science: 9 9, RS: 7, Music Performance: Dist.	**Secondary School**

EXPERIENCE

09/2020 - present	**Tennis Coach (Qualified)** • Providing high quality, multiple award winning and friendly tennis coaching to ages 3-16, as well as several adult players. • This included lesson planning, as well as practical group and individual training sessions. • Front of house work, including bar and cafe work.	**Encore Tennis - Queens Park Tennis Club Brighton**
08/2023	**Bartender** • Providing friendly and quick customer service, in a pressured environment, dealing with multiple orders, using electronic tills, serving drinks and dealing with public enquiries.m It also included festival environments.	**MINT**
02/2019 – 05/2019	**Assistant Football Coach** • Assistant football coach at Brighton Saturday Soccer Club, working with players aged between 5-12.	**5 Ways Soccer**

ACHIEVEMENTS

• Winner of UCL Data Science Programming short course (2022)

• Brighton Half Marathon, raising over £900 for Parkinson's UK

• Average of 3.8 grades higher per subject than predicted grades (GCSEs) – making the local newspaper, The Argus

• Carbon Literacy Qualification

• Player of the Year at Withdean Youth FC (2016-17, 2022-2023)

• Most Improved Player at Queens Park Tennis Club (2021-2022)

• Under 16s Queens Park Tennis Club Tournament Winner (2020)