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https://github.com/OliverReeves2020?tab=repositories

Profile

I am a hardworking and enthusiastic Computer Science BSc student looking to further my skills and my professional understanding with a graduate position. I am seeking a fast-paced and challenging environment where I can contribute to real-world projects and solutions. I have considerable programming, communication and teamwork skills, developed from both my studies and from my work experience. I enjoy interacting with other people as well as learning new skills.

Skills

- Computer Languages – C/C++, CSS, Dart, HTML, Java, Java Script, Python (Pandas, Stata, Numpy), SQL/Oracle, C# .Net Core
- Specialised Skills – Software engineering (full stack, Front End, Back End), Database Manipulation, Machine Learning, Data analysis, Data Structures, Web Services, Web API, Shell, Firebase, AWS, Azure.
- Operating systems – Linux, macOS, Windows 10.
- Software – Various IDEs, GitHub (source code management), Jenkins. Microsoft office suite.
- General skills - Analytical Skills, Communication, Critical Thinking, Flexibility, Leadership, Problem Solving, Teamwork, Time management.

Work Experience

Scientific Volunteer. Cold Spring Harbor Laboratory. Long Island, NY.
Hammell Lab. July 2018

The group of Professor Christopher Hammell in CSHL specialises in studying several attributes of gene networks and how changes may impact disease. I assisted with data analysis.

- I developed a lightweight script to sort data into a readable format using Python with Pandas and Matplot library.
- I learnt how to sort through large amounts of data and created code that improved the analysis and displayed the data in a user-friendly format.

I gained an understanding of development processes in professional environments, working with various stakeholders such as supervisors and lab heads and reporting back my work to ensure it will make impact on colleagues' workflows.

Volunteer Researcher. King's College London August 2018

I wrote an application using Python for Professor Ana Donaldson (Biostatistics, King's College London), illustrating the Central Limit Theorem, a key concept in probability theory: showing that, when the sample size is large, the sample means follow a normal distribution, even when the samples come from a population that is not normally distributed. The purpose was to use it as an illustration in lecture notes of Statistics courses aimed at PhD students or newly qualified researchers at King's College London.

Volunteer Trainee Statistical Assistant. King's College London November 2022 - Currently

I currently have undertaken two tasks for Professor Ana Donaldson (King's College London):

- First, using Python (Pandas), I am calculating the means and the 95% confidence intervals for several patient characteristics (e.g. age, education, etc.). It is required to do this, in the overall sample, and per each treatment group. This is to allow to check that the two treatment groups were balanced for the explanatory variables that were measured in the study.
- Second, I am revising the old practical tutorials using Python (Pandas and Stata packages) instead of SPSS, which was the statistical program used in the previous version.

Education

Nottingham Trent University – MComp (Hons) Computer Sci FT 3-year course (September 2020- Jun 2023):

- First class honours

The Sweyne Park School. Rayleigh (Essex)

- A Levels (September 2020). Computer Science C, Maths C, Physics D

Certifications

Azure AI fundamentals

External - Online Courses

Currently undertaking three courses with CodeCademy: *Full-stack Engineer, Back-End Engineer, Front-End Engineer*.

Courses/Modules at Nottingham Trent University – Mcomp (Hons) Computer Sci FT

Completed Modules (Years 1 and 2):

- Systems Analysis and Design (SAD). (*Programming projects using HTML and Python: analysis of requirements, identification of solution, documentation of the process, manual and automated testing prior to deployment*).
- Computer Technology & Mathematics. (*How a computer works, hardware architecture and mathematical techniques.)*
- Information and Database engineering. (*The nature and applications of database management systems.)*
- Software Design and implementation. (*Gained knowledge and skills in software development techniques to support the development of robust, secure, maintainable and portable software systems*.)
- Software Engineering. (*The structures, techniques and technologies to support the development of robust software systems in a team environment.*)
- Machine Learning for Data Analytics. (*Machine learning techniques to process and discover patterns in data, development of the model, goodness of fit and interpretation.*)

Currently Undertaking Modules (Year 3):

- Advanced Analysis and Design. (*The object model and how it can be applied to build systems. Learn how to use the notation and follow the process for object-oriented development*.
- Artificial Intelligence (AI). (*Main methods and techniques and current areas of AI research and development*.)
- Service-centric and cloud computing. (I*mplementing distributed computing systems in Service-Oriented Architectures (SOA)*.
- Advanced Software Engineering. (*Techniques and strategies to analyse, choose, propose, design, implement, test, and evaluate software elements.*)
- Final Year Project.

Interests and Hobbies

Developing my programming skills, learning new languages aided by online courses outside of university.
Going to the gym and improving my well-being. Socialising with co-workers and friends.
Home Projects: Building computers from scratch and building an electric pinball game interacting via computer.