Oliver Reeves

Contact Details

oliverareeves@gmail.com
07522039581
www.linkedin.com/in/oliver-reeves-047451222
https://devoliverreeves.engineer
https://github.com/OliverReeves2020

Profile

I am a hardworking and enthusiastic Computer Science BSc graduate looking to further my career. 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 through my academic and work experience. I enjoy collaborating, learning new skills and exploring new technologies.

Experience

Volunteer Trainee Statistical Assistant **November 2022 – Currently**
King's College London

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

- Using Python (Pandas), I am calculating means and proportions, and their 95% confidence intervals, for several patient characteristics. This is to verify that the two treatment groups were balanced for the explanatory variables that were measured in the study.
- I am revising the old practical tutorials using Python (Pandas and Stata packages) instead of SPSS, which was the statistical program used in the prior versions.

Volunteer Researcher **August 2018**
King's College London

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 non-normal population. The illustration was used in statistical courses aimed at non statisticians: medical and dental PhD students or newly qualified scientific researchers at King's College London.

Summer Research Intern **August 2018**
Hammell Lab

The group of Professor Molly Hammell specialises in studying the function of gene networks and how they are compromised in aging associated disease, such as cancer and neurodegeneration. I provided support with data analysis for one of the group's key projects.

- I developed a lightweight script to sort data into a readable format using Python with Pandas and Matplot library.
- I sorted through large amounts of data, creating 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 (e.g., supervisors and lab heads) and reporting back to ensure it will make impact on the workflows.

Education

Bsc Computer Science **September 2020 - Jun 2023**
Nottingham Trent University

First Class Honours

A Levels **September 2020**
The Sweyne Park School

Computer Science: **C**, Maths: **C**, Physics: **D**

Technologies and Skills

Computer Languages

- C/C++
- Java
- HTML
- CSS
- Java Script
- SQL/Oracle
- Dart
- Python (Pandas, Stata, Numpy)

Specialised Skills

- Software engineering (full stack, Front End, Back End)
- Data Structures
- Firebase
- Database Manipulation
- Web Services
- AWS
- Machine Learning
- REST API
- Azure
- Neo4J
- Data analysis
- Shell
- Rabbit MQ

Software and Operating Systems

- Linux
- GitHub (source code management)
- Docker
- macOS
- Jenkins
- Windows 10
- Microsoft office suite

General skills

Analytical Skills, Communication, Critical Thinking, Leadership, Problem Solving, Teamwork, Time management.

Certifications

- Azure AI Fundamentals

Awards

- Department of Computer Science High Achiever Prize, Microsoft Azure AI Fundamentals

Course Modules

Nottingham Trent University

1st and 2nd year

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.

3rd year

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

- Implementing 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

- Investigating the intersection of mental health and exercise and seeking to improve habit-building using technology

Interests and Hobbies

Going to the gym and improving my well-being. Socialising with co-workers and friends. Building computers from scratch and building an electric pinball game interacting via computer.