DANIEL BATCHFORD

Bsc Computer Science 2nd Year Student

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London, UK

WORK EXPERIENCE

Sainsbury's

Data Assistant

In this role I managed and upgraded Excel sheets, implementing conditional lookup functions, as well as filtering and formatting CSV data in Python, aiding the retail team by producing easier to use Excel structures. I also collected and compared pricing data across competing supermarket retailers, presenting the data in a suitable format.

April 2018 (1 Week) London, UK

INDUSTRY PROJECTS

King's Certificate

King's College London Mathematics School

Industry collaboration project with Arbor, a statistical company aimed at providing insights into educational data. Worked in a small team to produce a GUI implementation of a statistical tool used to group multi - academy schools into groupings based off specific data about an academy. This was concluded with a presentation to Arbor and a journal article.

September 2017 - June 2018 London, UK

EDUCATION

BSC Computer Science

University of Birmingham

October 2020 - Present Birmingham, UK

A Level Study

Kings College London Mathematics School

A* - Further Mathematics
A* - Mathematics
A* - Physics
A - Computer Science (AS)

September 2017 - July 2019 London, UK

Secondary Study

Farringtons School

GCSE - 7A* 4A

September 2005 - July 2017 Bromley, UK

ABOUT

I am a second year Computer Science student at the University of Birmingham. I have a strong passion for solving technical and algorithmic problems, as well as a significant interest in GUI development in mobile and desktop applications.

STRENGTHS

Mathematical Modelling | Python | Java | C++

HTML | CSS | JavaScript | Git

EMPLOYMENT

Papa John's (GB) Ltd

Food Delivery Driver

Delivering food items to customers and collecting and handling payment.

May 2019 - July 2019
Bromley, UK

CURRENT PROJECTS

I am currently working on GUI visualisations and controls for common computer science concepts, including path-finding and sorting algorithms, with the aim of making these concepts easy to visualise, understand and learn. I am ambitious to help bring these ideas and fundamental concepts to a wider audience outside the scope of Computer Science, enabling more students to get involved in a future career in the field.

See this work on:
github.com/danielbatchford

PERSONAL PROJECTS

Path-Finding Visualiser

An interactive, path-finding visualiser showing the process of searching algorithms on a 2 dimensional grid containing obstacles.

github.com/danielbatchford/PathFindingVisualiser

Path-Finding Library

Lightweight Java pathfinding library implementing common path-finding algorithms on a 2d grid.

github.com/danielbatchford/PathFinding

Sorting Algorithm Tester

Javascript based website display various sorting algorithm's computing time.

github.com/danielbatchford/SortingTester

Snake Game AI

Java snake game AI using A* pathfinding and Processing GUI.

github.com/danielbatchford/SnakeAI

Multivariate Linear Regression Library

A multivariate linear regression library to perform binary classification on N-variable datasets.

github.com/danielbatchford/MultivariateLinearRegression

Virus Simulation

Virus simulation model using Java and SIR Model of virus spread.

github.com/danielbatchford/VirusSimulation