Elijah Durston-Rand

+447751 347520 | elijah@elijahdr.com | elijahdr.com | ElijahDR | ElijahDR

Personal Profile

A Computer Science Undergraduate at the University of Bristol with a fond love of the field, learning different aspects in the last 7/8 years as a hobby in my free time. Covering a wide range of fields: competitive programming, cyber security, algorithms and the world of AI along with a strong and fond background with Mathematics.

Education

University of Bristol

Bsc Computer Science   *2022 - Current*

- First Year: Computer Architecture, Statistics, Linear Algebra, C, Haskell, Java, Algorithms, Linux and Git
- Second Year: Software Engineering (Java), Algorithms, Go, Parallel Computing, Programming Languages and Computation, Cyber Security and Data Science

Colchester Sixth Form College

A Levels   *2020 - 2022*

- Studied Further Mathematics, Mathematics, Computer Science and Physics
- **Grades:** A*A*AB

Colchester Royal Grammar School

- **GCSE Grades:** 99999988887   *2015 - 2020*

Projects

Breast Cancer Assessment

University of Bristol Software Engineering Project

- Desktop application written in Java using JavaFX for the frontend, working closely with the NHS. An application to analyse breast cancer patient data and return eligible treatments to save doctors doing it by hand and saving time. Group project requiring constant usage of Git to maintain a proper workflow and communication.
- **Technical Skills:** Java, JavaFX, Git and Non-Technical Communication.

Path Finding Visualisation   *Implementation here*

A Level Computer Science Project

- Full stack website (HTML, CSS, JavaScript) using P5.js library to display, implementation of several algorithms including the usual pathfinding algorithms and Perlin Noise weight generation. Complete write-up in LaTeX.
- **Technical Skills:** HTML, CSS, JavaScript, Overleaf and LaTeX Report Writing.

Snake AI   *Implementation here*

Personal Project

- Neural Network written in JavaScript from scratch using an Object Orientated approach. Simple Genetic Algorithm used to train the AI, changing around hyperparameters to understand their effects better.
- **Technical Skills:** HTML, CSS, JavaScript and Machine Learning.

Project Visualisation   *Found on the right of my website*

Personal Project

- A Visualisation of several common algorithms in computer science including: Boids, Game of Life, Sorting Algorithms and a few others.
- **Technical Skills:** HTML, CSS, JavaScript and Algorithms.

Advent of Code Solutions

Personal Project

- Solve Advent of Code every year for the last 5 years, waking up at 5am to start when they are released. Solving abstract problems in Python quickly and efficiently.
- **Technical Skills:** Python and Problem Comprehension.

Work Experience

Waitrose & Partners   *Suffolk/Bristol*

Assistant   *Nov 2021 - Current*

- Worked part-time throughout College and University, managing to balance my studies, work and social life. Experience in a professional work environment, admin side of things along with communication and teamwork.

Skills

Programming   Python, HTML/CSS, JavaScript, Java, Go and C.
Miscellaneous   Linux, LaTeX (Overleaf), Microsoft Office, Git.

Any further questions, feel free to contact me.