George Sharpe

+44 7443633232 | georgeasharpe@gmail.com | github.com/sharpegeorge

EDUCATION

University of Exeter | Exeter, UK

Sep 2022 - Jun 2025

- BSc Computer Science
- Completed Modules: Learning from Data, Nature Inspired Computation, Artificial Intelligence and Applications

Sandringham School | St Albans, UK

Sep 2015 - Jun 2022

- A Levels Computer Science (A*), Maths (A*), Further Mathematics (B), Physics (B)
- 9 GCSEs 6 at Grade 9/8(A*) with Mathematics (9/A*), English Language (7/A) and Computer Science (9/A*)

CODING PROJECTS

Automated Clinical Coding Model

Sep 2024 - Present

- Designing a Large Language Model (LLM) to interpret medical records and assign ICD-10 codes
- Classification model with up to 70,000 classes
- Implementing a Binary Decision Tree (BDT) to contextualise peripheral data from coding guidelines
- Completed a literature review to derive optimal methods for solving

Deep Learning Model for Predicting Credit Card Defaults

Jan 2024 - Apr 2024

- Designed a Multi-Layer Perceptron (MLP) to classify credit card transactions as likely to default or not
- Cleaned and preprocessed data to account for class imbalance in dataset
- Leveraged L2 regularisation and batch normalisation to improve performance

Killer Sudoku Game & Solver

Jul 2023 - Oct 2023

- Engineered an algorithm to solve the game 'Killer Sudoku'
- Utilised a backtracking algorithm and linear algebra
- · Used libraries NumPy and SymPy for efficiency and simplicity

Pairs Game Website

Jan 2023 - Apr 2023

- Launched a dynamic web application using the LAMP (Linux, Apache, MySQL, PHP) stack
- Used HTML, CSS, and JavaScript in creating the web application
- Deployed on a Microsoft Azure cloud-based virtual machine

Social Media Platform

Jan 2023 - Apr 2023

- Developed a Java backend package to be implemented with an existing frontend
- Practiced OOP principles to create an effective and readable design
- Collaborated with another student in Pair Programming, leveraging Git Version Control

AQUA Weather Application

Oct 2022 - Nov 2022

- Designed air pollution data analytics solution in Python
- Accessed and manipulated data from CSV files using Pandas
- Obtained real-time data utilising an API

Minesweeper Game & Solver

Jun 2021 - Mar 2022

- Created a Unity-based version of 'Minesweeper' with scripts written in C#
- Designed a solving algorithm using a seed fill algorithm and linear algebra

OTHER EXPERIENCE

Santander | Customer Advisor

Jun 2018

- Engaged in daily activities of a local branch, including daily morning briefs and ATM money transfers
- Greeted customers and assisted in financial transactions

SKILLS AND INTERESTS

- Coding Languages: Python, Java, C# Skills: VS Code, Anaconda, IntelliJ, PyCharm, Linux
- Interests: Weightlifting, Cooking, Football, Cycling, The Witcher franchise, Gaming Societies: Computer Science, Video Games, Board Games