

Daniel Hislop

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EDUCATION

University of Glasgow

September 2017 – June 2021

First-Class Honours BSc in Computer Science

Glasgow, Scotland

- Subjects include: Algorithmic Fundamentals, Advanced Networks and Communications, Networked Systems, Database Systems, Cyber Security Fundamentals, Human Centred Security, Safety Critical Systems, Functional Programming, Text as Data and Data Fundamentals.

Turnbull High School

August 2011 – May 2017

Achieved 6 Highers, 2 Advanced Highers

Bishopbriggs, Glasgow

EXPERIENCE

Home Bargains

October 2016 – August 2019

Sales Assistant

Bishopbriggs, Glasgow

- Adapted to a high-pressure and fast-paced retail environment.
- Gained experience in a leadership role providing training for newly recruited staff.
- Extensive interaction with public to satisfy their enquiries.

Oxfam

June 2016 – October 2016

Volunteer Shop Assistant

Bishopbriggs, Glasgow

- Tasked with balancing cash drawer throughout the day.
- Entrusted with delivering money from shop to bank.
- Developed communication skills working as part of a team.

PROJECTS

Improved Steganography Algorithm | *Python, NumPy, Open-CV, Git*

September 2020 – April 2021

- Subject of final year dissertation.
- Addressing vulnerabilities present in the Bit-plane Complexity Segmentation algorithm followed by an evaluation of implemented modifications.
- Investigated how steganography can be used with lossy compression techniques such as JPEG.
- Creation of a tool capable of detecting the presence of a hidden payload within images.

ResDiary Mobile App | *Python, FastAPI, pydantic, Docker, Scrum, Git*

September 2019 – March 2020

- First project developed for a real-life client. ResDiary required a mobile application that can recognise a restaurant logo and in near real-time, display pertinent information about the restaurant to the user. Collaborated with four team members.
- Personally responsible for creation of Middleware application, using FastAPI, which communicates with the developed mobile app and client API.
- Oversaw deployment of Middleware using Docker.
- Introduced to test driven development and more detailed use of CI/CD.

Tourist Guide to COVID-19 | *Flask, pandas, HTML, CSS, JavaScript, Git*

November 2020 – December 2020

- Web application allowing users to visualise information about the current global condition of the coronavirus to make informed decisions about future travel. Collaborated with three team members.
- Personally responsible for data visualisations using plotly. Dataset created with pandas library.
- Gained further experience using HTML/CSS/JavaScript.

TECHNICAL SKILLS

Languages: Python, HTML/CSS, JavaScript, Java, C/C++, SQL (Postgres)

Frameworks: Flask, FastAPI

Developer Tools: Git, Postman, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: NumPy, pandas, Plotly, Sphinx