

James Pilcher

www.github.com/jamespilcher

pilcherjames0@gmail.com ❖ (+44) 07857470805 ❖ Southampton, UK

EDUCATION

MSci Computer Science, University of Exeter

Sep. 2021 – Jun. 2025

Second Year, 86.1% Avg.

- Dean's Commendation (21-22), Computing Society President (22-23)
- Entrepreneurs Society

A-Levels, Peter Symonds College

Sep. 2019 – Jun. 2021

- Mathematics A*, Further Mathematics A, Physics A
- Chess Club, Badminton, Football

EXPERIENCE

Machine Learning Intern, University of Cambridge

Jun. – Jul. 2022

Linux, Python, NumPy, Keras, OpenCV, Jupyter Notebook, Bash

- Set up a development environment utilising a laptop, a Linux box, Venv, Jupyter Notebook, and Git.
- Received thorough one-on-one tuition on the theory behind neural networks and computer vision.
- Implemented a neural network using pure NumPy arrays and ultimately applied a pretrained object detection model (MobileNetV2) to a live webcam.

President, Exeter Computing Society

Jun. – Present

Excel, Trello, Teams

- Managing a team of 11 to provide bi-weekly events for over 130 society members while continuing to be financially stable.
- Work is delegated correctly so goals can be reached within tight deadlines.
- Maintained positive relations with the Computer Science Department by collaborating on a hackathon, and organising a 'Meet the Lecturers' social event that had 100 attendees at a local pub.

PROJECTS

LAMP Stack Tetris Website

Mar. 2022

Linux, Apache, MySQLi, PHP, JS, HTML, CSS

- Configured Apache, MySQLi, and PHP on an Azure Linux VM via SSH.
- Used cookies, forms, and SQL to create a functional log-in system.
- Built a fully operational Tetris game in JavaScript and a public leaderboard page to go along side it.

Covid-19 Dashboard Web Application

Nov. 2021

Python, Flask

- Built a user-friendly app using a Flask interface and a front-end HTML template which allowed users to schedule news and figure updates for COVID-19.
- Processed and coordinated information from the Public Health England API and NewsAPI.org
- Implemented a log file to provide a thorough history of app events with clear formatting.
- Provided detailed documentation.

Cycling Race Management Back-End Package

Feb. 2022

Java

- Communicated and coordinated in a pair to create a package that facilitated the creation and management of a Tour De France style cycling tournament.
- Designed well-encapsulated objects with functions that enabled interaction between them.
- Followed the Google Java Style-guide, had clear commenting and generated a HTML Javadoc.

Interests: Music Production; Source Engine Map Making, Personal Finance, Unity Game Programming (C#), Hiking