Joel **Adams**

COMPUTER SCIENCE · ARTIFICIAL INTELLIGENCE

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Skills

Front-end	HTML 5, Javascript
Back-end	Django, REST API, SQL, PostgreSQL, Apache2
Programming	Java, Python, C, C++, LaTeX, Node.js, React
DevOps	GCP, Docker, Jenkins, TravisCI
Operating systems	Windows, MacOS, Linux (Debian, Ubuntu, Raspbian, Manjaro)
Languages	English, Italian (Fluent), French (basic)
Interpersonal skills	Public Speaking, Problem solving, Team building, Teaching, Presentations, Leadership

Experience

Computer Science Advisor   *Wales, UK*

ABERYSTWYTH UNIVERSITY   *Aug. 2020 - Jun. 2021*

- Working as a Computer Science Advisor helping students in all years with any issues they are having related to computer science.
- Advising students on a variety of topics including; Java, Python, HTML, Javascript, PHP, understanding algorithm runtime, C and C++.
- This role is normally associated with postgrad students so being offered the position as an undergrad is rare.

Demonstrator   *Wales, UK*

ABERYSTWYTH UNIVERSITY   *Aug. 2019 - Jun. 2021*

- Helping first and second-year students during practicals when they are stuck on problems or need help debugging their code.
- Teaching students concepts or helping them with understanding a piece of code.
- Coaching primarily for modules using; Java, Python and C and C++ helping to greatly increase my knowledge of these modules.

Discord Bot Developer   *Wales, UK*

ABERYSTWYTH UNIVERSITY   *Aug. 2020 - Jun. 2021*

- Co-developed and currently maintaining a system for managing 800 students during the online practicals in the department.
- Built up a simple queue system that would be dynamically created and destroyed in each Discord server.
- Approached by the university and paid to continue to develop and maintain the project.
- The bots repository can be found here along with the open source code `https://github.com/AberDiscordBotsTeam`.

Academic Representative (volunteering)   *Wales, UK*

ABERYSTWYTH UNIVERSITY   *Aug. 2018 - Jun. 2021*

- Active voice of the students providing feedback to the Computer Science department and to the lecturers directly.
- I have been voted in for this role during first, second and third year.

Nightclub photographer   *Aberystwyth, Wales, UK*

THE ROYAL PIER   *Aug. 2019 - Jan. 2020*

- Working as a photographer for the nightclub from 01:00-03:00 am every other night during the week.
- Responsible for taking on average 400 pictures per session and editing them in time for the 12:00 pm release the next day on the Facebook page.

Comp Sci Community Hub Administrator (volunteering)   *N/A*

ABERYSTWYTH UNIVERSITY (DISCORD)   *Aug. 2019 - Jun. 2021*

- Co-founder of the Comp Sci Community Hub and the main Administrator / Moderator providing the Computer Science department of Aberystwyth University with a discord server to serve as a social environment.
- Responsible for maintaining a semi-official server under my own set of guidelines.
- Currently boasting over 800 members including lecturers and alumni.
- This server and it's success lead to the lecturers creating their own Discord servers for modules based off of a template I created.

Research Assistant   *Bristol, UK*

UNIVERSITY OF BRISTOL   *Jun. 2019 - Aug. 2019 & Jun. 2020 - Aug. 2020*

- Transcribed recordings of children from 1999 - 2000 to be used as research in speech therapy.
- Drastically increased my typing skills.

Photographer   *Aberystwyth, Wales & Bristol, UK*

FREELANCE   *Aug. 2018 - PRESENT*

- Working as a freelance photographer at university for the Students Union and the local clubs/societies.

English/Italian mentor in Computer Science

Rome, Italy

FREELANCE

Jun. 2019 - Aug. 2019

- Working as a freelance teacher of computer science during the summer holidays teaching kids how to code and program Arduinos.
- Taught concepts in both Italian and English to help strengthen their understanding of English vocabulary.

Education

Computer Science and Artificial Intelligence, BSc

Wales, UK

ABERYSTWYTH UNIVERSITY

Aug. 2018 - Jun. 2021

- Currently on track for a first-class honours
- **Relevant modules**:
  - Introduction to Object Orientated Programming OOP (Java, 1st year)
  - Computational Thinking (Python, 1st year)
  - Problems and Solutions (Algorithm run-time, 1st year)
  - Program Design, Data Structures and Algorithms (N/A, 2nd year)
  - Software Engineering (Group leader of group project, 2nd year)
  - Agile Development and testing (TravisCI and Jenkins, 3rd year)
- **Major project**: AberLink connects CS students' uni accounts to their discord accounts through a website. This project also includes a front end discord bot for marking attendance in practicals and verifying discord accounts. Built webpages using HTML5 and JavaScript along with Django (Python) for the back-end web-server. The Discord bot is made using Python.

A-levels

Rome, Italy

THE NEW SCHOOL

Aug. 2016 - Jun. 2018

- Achieved a BBC in Italian, Maths and Physics respectively

IGCSEs

Rome, Italy

THE NEW SCHOOL

Aug. 2014 - Jun. 2016

- English, Maths, Physics, Chemistry, Biology, History, Italian, French

Extracurricular Activity

Discord bot developer

Aberystwyth, Wales, UK

N/A

Aug. 2020 - PRESENT

- During my free time I have written several Discord bots which have been inspired by the Computer Science's Community Discord Hub.
- **The bots**:
  - **StressBot** - A bot that allows users to enter their stress level as a percentage (-99%-9999%) and stores information in a JSON file.
  - **MorningBot** - Responds to the message 'morning' in Discord with a location in the world where it is currently morning despite the current time (works in over 10 languages!).
  - **ManPageBot** - allows for the user to request a linux man page for a specific command using pythons module for querying the command line. e.g. !man ls
- Developed in Python and running in a Google Cloud Instance (GCP).
- They can all be found on my GitHub page and are open source.

President of the Aberystwyth Photography society

Aberystwyth, Wales, UK

STUDENT'S UNION

Aug. 2018 - Jun. 2019

- Co-founder of the society.
- Responsible for building up the foundations and establishing the Photography Society at Aberystwyth University.
- Created and lead many workshops helping student to learn about their cameras.

Toastmasters Public Speaking course

Rome, Italy

TOASTMASTERS ITALIA, THE NEW SCHOOL ROME

Aug. 2017 - Jun. 2018

- Learnt about public speaking and delivering presentations to other students.
- Came second in the final competition involving improvisational public speaking.

Referees

Lecturer of Computer Science

Aberystwyth, Wales, UK

NEIL MAC PARTHALAIN

- **email**: ncm@aber.ac.uk
- **phone**: (01970) 622869

Lecturer of Computer Science

Aberystwyth, Wales, UK

CHRIS LOFTUS

- **email**: cwl@aber.ac.uk
- **phone**: (01970) 622422