

CATHAL O'CALLAGHAN

2nd Year Computer Science & Information Technology Student

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PERSONAL PROJECTS

News article web scraper

Python / Go

- Wrote a scraper to gather news articles from a handful of websites daily for alter data analysis. I plan on using this data set as an intro to machine learning where I'll make website where users try to guess which headlines are real and which are fake.

Studyclix user base analysis

Python / R

- Collected my own data set of all users on Studyclix.ie. With this I compared the average student to the average Studyclix user and gave some insight into what type of person the average Studyclix user is.

Database parser

C

- A program to parse the data of an open data set detailing all airports and aerodromes worldwide. Each data point holds information such as ICAO code, coordinates, name and timezone.
- Took on this project after my first year of C as a means of strengthening my knowledge of dynamic allocation and general knowledge of the C language.

Using an OCR to cheat memory tests

Python

- Combined Google's tesseract OCR and python to make a script capable of insane high scores on an online verbal memory test mini-game.
- Average score is 13 and my script can obtain any score given enough time.

QR code anywhere chrome extension

Javascript

- Developed a chrome extension to easily swap between screens by displaying a QR code for any web page that can be scanned by a phone.
- Instead of typing very long URLs into my phone I now just scan the QR code and can enjoy browsing the same page on my phone with ease.

VOLUNTEERING

Safety Officer & Public Relations Officer

I was the 18/19 P.R.O for NUIG drone society and I am the current safety officer for the society

Ordinary Committee Member

I'm on the committee for NUIG Computer society. I help out with committee work that needs to be done and am learning a bit about the operation and maintenance of our servers on the side.

SUMMARY

I am a motivated and diligent individual with a keen interest in the ever expanding world of technology. I pride myself on my dedication to whatever I am tasked with and love the rewards that problem solving through programming has to offer. Love to apply my programming knowledge to fix real world problems.

EDUCATION

BSc Computer Science and Information Technology

NUI Galway

09/2018 - Ongoing

Graduating in 2022

FAVORITE MODULES

Algorithms

Discrete Mathematics

Statistics For Data Science

C Programming

Web Development

Software Engineering

Object Orientated Programming

PUBLICATIONS

Tesseract & Python OCR Guide

Wrote a wiki post for NUIG's CompSoc wiki page that taught beginners how to recreate my own project step by step.
<https://bit.ly/37ogKsN>

LANGUAGE EXPERIENCE

C



Python



JavaScript



Java



Go

