Summary

In August of this year I will be graduating from the University of Nottingham in mathematics, my main focus right now is finding a junior/graduate developer role where I can learn and be exposed to a mix of technologies and applications.

My main focus in university has been on applied mathematics and scientifc computation (primarily with MATLAB), which means I have excellent numerical and problem solving skills. My research project has given me strong office processing skills, further enhanced by an MOS certificate in Excel as well as experience in writing technical reports. I have an abundance of experience in manual labour where being detail-orientated and strict timekeeping were essential.

See below for a repertoire of personal projects that demonstrate a strong grasp of the Python programming language in several key areas such as webscraping, multithreading, data analysis and game theory.

Projects

**Tell Me Done :** <https://devpost.com/software/tell-me-done>

* A prize winning hackathon submission for HackNotts2020
* A Python program that uses the Twilio API to send messages to a persistent users list, using Flask and ngrock to recive them

**Twitch Drops :** <https://github.com/frostyfeet909/Twitch-Drops>

* A multithreaded Python program that uses the selenium webdriver to automatically earn and claim Twitch drops for a persistent user list

**Abuse Surveys :** <https://github.com/frostyfeet909/Abuse-Surveys>

* A multithreaded Python program that uses the selenium webdriver to autonomously answer Survey Monkey forms with random quotes and tickbox answers

**Testing Foam :** <https://github.com/frostyfeet909/testingFoam>

* A set of Python and bash programs to run large batches of fluid mechanic simulations in OpenFoam and the use of matplotlib in analysing and autonomously plotting the results

**Tic Tac Toe With Minimax :** <https://github.com/frostyfeet909/Tic-Tac-Toe-with-minimax>

* A Python implementation of tic tac toe and a bot to solve it using minimax with alpha-beta pruning

Education and Certifications

Bachelor of Science (Predicted 1st class): **Mathematics** – Graduating 2021

**University of Nottingham**

* With a focus on applied mathematics and scientific computation (primarily with MATLAB)
* Working on a large independent project studying pseudo parabolic equations to produce a technical writeup and presenting it to a non-specialist audience

**Algernon Sampson**

AS/A2 Levels (A\*AB): **Mathematics, Computer Science and Physics** – Graduated 2016/17 respectively

**Saffron Walden County High School**

* Presented with a headteachers commendation for excellence in Mathematics and the school prize in Computer Science

GCSE’s (11A\*-B): **Including A\* in Mathematics and A in English** – Graduated 2015

**Joyce Frankland Academy Newport**

* Presented with the schools outstanding at GCSE award and the academy ICT prize

Microsoft Office Specialist (Certificate): **Excel Associate (2019)**

Programming Languages:

* Proficient: **Python, MATLAB, C++**
* Learning: **Java, Octave**

Experience

**Kitchen Porter** – Summers 2017 to 2018

**The Plough**, Debden

* Working as part of a three-person kitchen team and liaising with the front-of-house team
* Following strict cleaning rules and regulations for food preparation and cleaning
* Working on my feet for long periods of time
* My responsibilities were expanded to basic food preparation for fish and side dishes

**Cleaning and Maintenance** – Seasonal 2014 to 2020

**Privately owned student Let Properties**, Norwich

* Working to strict 2-to-4-day deadlines between student tenancies
* Attention to detail in less-than-ideal environments left by previous tenants

Interests

I am currently training for the Robin Hood half marathon 2021 which I will be running to raise money for the Stroke Association. In 2015 I took part in the National Citizenship Scheme, during which I volunteered at a local care home and raised money for the British Heart Foundation.

Before lockdown I regularly trained in Brazilian Ju-Jitsu, earning a silver medal in my first under 18s open. Having built my own computer and an interest in developing I competed in the HackNotts2020 hackathon where I won two sponsored prizes for my project.

Furthered interest in programming development is the driving force behind most of the above projects, this same interest has also pushed me towards enrollment on various online courses from leading universitys that offer education in intersting areas, such as [algorithms](https://www.coursera.org/learn/algorithms-part1) and [machine learning](https://www.coursera.org/learn/machine-learning).

References

**Academic Tutor**

Dr. John Billingham

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**Head Chef** (Previous Employer)

Christopher Tripp

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