

## PROFESSIONAL PROFILE

I have a vision to make high-quality, automated technology services available to everyone so that the world functions better. I use my experience as a software and web developer to create websites and software that present or demonstrate the power of technology to others through clean, yet beautifully crafted code that solves problems effectively.

Working as a freelance software and web developer allows me to apply my knowledge and creativity to other people's ideas and problems. Hence, I can rise to new challenges and learn new skills in each job that enhance my ability as a programmer.

I can work either in a team or independently and I understand the need for communication throughout a project, which I have developed through working on the IoT project. I am fascinated with the way in which the programming world changes, and at such a fast rate. I find it important to keep up to date with the latest technological advances.

## Qualifications

- Amazon Web Services Certified DevOps Engineer Professional
- Amazon Web Services Certified Developer Associate
- Cert 5 Freelance Software and Web Developer

## Skillsets

- |                        |                    |                     |
|------------------------|--------------------|---------------------|
| • Software development | • Web development  | • AWS               |
| • Python               | • HTML, CSS and JS | • SQL and databases |
| • C++, C# and C        | • jQuery           | • Advanced DSA      |
| • Git                  | • PHP and AJAX     | • Problem-solving   |
| • Docker               | • Bootstrap 4      |                     |

## PREVIOUS PROJECTS

### GoProgram (2019-2021)

I run [GoProgram](https://www.goprogram.co.uk), a successful, micro-business, that showcases open-source programming projects and shares free Python tutorials. It contains a wide variety of programs, highlighting different aspects of programming. The website is frequently updated to bring viewers new projects and keep up to date with the newest standards. I have coded everything on the website from scratch and it is free to use or modify any of the code. The web pages have been written using PHP, HTML, JS and CSS to create a unique finish with custom features.

### Casino Simulator (2020)

I wrote a Monte Carlo Simulation in JavaScript, which I then turned into a web application for [Team Casino's website](#). The simulator ran 25,000 times to predict the results of a wide range of offers that casinos advertise so that the user knew whether or not to accept the offer. The webpage was designed using Bootstrap 4 and fitted the design provided. Additionally, jQuery animations made the page more interactive, alongside the responsive design and mobile-friendliness. This received huge praise on Facebook after it was released, receiving a large number of likes, loves and positive comments, which reflect the quality and of the finished project.

## CVAT Server (2020)

CVAT is an open-source Computer Vision Annotation Tool, which is freely available on [GitHub](#). I amended the code to personalise the setup for [Air Data Systems](#) and created an additional feature to train annotations directly. This additional AWS integration allows a user to seamlessly train a Darknet model on an EC2 GPU-optimised instance at the click of a button. The weights are uploaded to an S3 Bucket after training and the instance is terminated to save costs and automate the entire process.

## IoT Project Hot-Desking Project (2018)

I worked in a team on a project that aimed to make hot-desking more comfortable and efficient. The project involved working with hardware, as well as software to implement code on a Raspberry Pi to run the [Tinkerforge](#) hardware stack. The project was sold just after I finished working, which was a huge achievement for the entire team, and reflected the work that had gone into it.

## VOLUNTEERING

### Charity Web Design (2020-2021)

The Send a Child to Hucklow Fund is a charity that provides holidays to young children from disadvantaged backgrounds who would not normally receive such an experience. When the lead webmaster retired from his position, I took up his place to redesign and take over management of the website: [sendachildtohucklow.org.uk](http://sendachildtohucklow.org.uk). This role allows me to increase the appeal of the charity to a wider audience, as well as practising my visual design skills, another hobby that I enjoy, and manage the digital infrastructure for an organisation.

### Volunteering at Scope Charity Shop (2018-2019)

I have spent 100s of hours volunteering at the [Scope charity shop](#). At first, I was responsible for hanging up clothes or sorting cards. However, as I would carry out tasks quickly and efficiently, often going above and doing extra to what was required, I became responsible for serving customers and setting up displays. Through Scope, I have improved my ability to interact with customers and my team-working skills, as well as refining my time management and organisation across a different environment. It is extremely rewarding knowing that you are making such a large difference to people both in and outside of the local community.

## HOBBIES

One of my most passionate hobbies is cross country running. I train as often as I can, and I race most weekends, as I am part of the club [South London Harriers](#). Through cross country, I have learnt to be committed and manage time well across sport and work.

In my spare time, I play the violin in an orchestra and a strings group at Grade 8 standard. I find that playing the violin in a group requires a different kind of teamwork to other situations and is a great way to relax and socialise.

The least surprising of my hobbies is competitive programming. I recently began competing in [CodeChef leagues](#), and I have now learnt a lot of advanced data structures and algorithms that have helped my programming in other areas and promoted me to the top division after a few months of competitions.