SAMUEL ASQUITH

Full-Stack Developer

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🔾 https://github.com/Sboncio

EXPERIENCE

Full-Stack Developer

IBM CIC

📅 Feb 2021 – Present   📍 Leicester (Remote)

As a member of the IBM CIC, I trained as a full-stack developer before moving to work on various projects for clients. I have contributed to projects for both internal and external clients, each providing certain requirements and restrictions on what technology can be used, requiring me to adapt my knowledge to best meet these needs.

DevOps Consultant

QA Consulting

📅 July 2020 – Jan 2021   📍 UK wide

In this position I trained in all aspects of DevOps, ranging from web development to deploying on remote cloud servers effectively and safely, ensuring operation in all circumstances.

EDUCATION

BSc (Hons) Artificial Intelligence - First Class

De Montfort University

📅 2017 – 2020   📍 Leicester

I achieved a first class honours degree in artificial intelligence where I specialised in automation, machine learning and robotics. I developed programming skills in C/C++, Python and MATLAB. While studying I took part in events learning about embedded system programming, basic penetration testing, robotics, machine learning and encryption.

Btec Level 3 Extended Diploma in IT

NPTC Group

📅 2015 – 2017   📍 Neath

I achieved a Distinction* Distinction* Distinction* grade whilst studying various aspects of Information Technology. Specific topics ranged from hardware maintenance to fundamental programming and database design & maintenance.

12 GCSEs grade A* - C

Ysgol Gyfun Ystalyfera

📅 2013 – 2015   📍 Ystalyfera

I achieved 12 GCSEs including English, Mathematics, Science and Welsh.
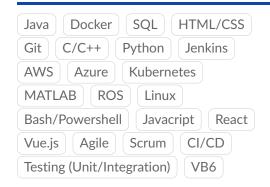
ADDITIONAL INFORMATION

- Fluent in the Welsh Language
- Open to new challenges.

ABOUT ME

I am a full-stack software developer with a keen interest in machine learning and artificial intelligence. I enjoy expanding my skill base by continuously learning new technologies to meet the needs of personal and professional projects, and bringing that knowledge to future projects.

SKILLS

Java Docker SQL HTML/CSS
Git C/C++ Python Jenkins
AWS Azure Kubernetes
MATLAB ROS Linux
Bash/Powershell Javacript React
Vue.js Agile Scrum CI/CD
Testing (Unit/Integration) VB6

DISSERTATION

My dissertation, titled "Re-pathing of Autonomous Robots in Cases of Collision Detection", focused on a self-driving robot designed to navigate unknown environments while also creating an exportable map. The code was designed in a modular fashion using ROS with the C++ and Python, meaning that it could be expanded to include more functionality, e.g. a neural network based navigation system. Currently, the code uses the "Bubble Rebound" algorithm to detect obstacles and find a path to avoid them, however the design of the code means any other detection system can be easily replaced.

ADDITIONAL QUALIFICATIONS

- AWS Certified Cloud Practitioner

VOLUNTEERING

I am currently part of several volunteering programs focusing on the teaching and application of various programming languages with IBM. The success of the initial HTML/CSS focused course has lead to the creation of an identical course focusing on Javascript. I also took part in the teaching of Scratch to primary schools during my time at university.