Iman Jimoh

07733134882 | imanj1470@gmail.com | Lincolnshire

Personal Statement

I have always expressed love for computers and programming since a young age. When I was 12 years old, I made and programmed my first autonomous robot using the Arduino microcontroller. At this age, I wanted to share my knowledge and help others. So I published tutorials and participated in competitions on the Instructables website, amassing a total of **5000+ views.** (www.instructables.com/member/ImanJimoh/). I am a studious candidate who is currently taking on four A-levels at Hill House School. I am currently predicted 4 A*'s in the subjects: Further Maths, Maths, Computer Science and Physics. This showcases my desire to succeed. I am currently seeking a job to further develop my skills and gain more practical experience, to prepare me for the work environment.

Experience

Work Experience - PSP IT Software Development Solutions

(reference available upon request)

- Created an asynchronous worker service in **C#** using the **.NET framework**, for an automated mail system. This involved:
    - Extracting email data from a remote **SQL** database
    - Formatting and sending any unsent emails via an SMTP server
    - Validating that the emails has been sent
    - Updating the database to reflect these changes for Atomicity, following the ACID rules.
- In process of creating a REST **Web API** using **ASP.NET CORE** to manage an **SQL** database
- Briefed on how scalable projects are managed and deployed with Microsoft Azure DevOps
- Attended board meetings to learn and understand the workflow and how projects are coordinated and how tasks are delegated for maximum efficiency

Software engineering

- Designed and coded a program which fully automated homework tasks set on the website *Memrise* using **web scraping** techniques:
    - Made in **Python** using the **Selenium framework**
    - Logs into the platform and selects the correct homework task
    - Scrapes the question table to locate the corresponding answer
    - Detects the question format via it's HTML tags ID and uses it's XPATH to input the correct answer
- Created a voice assistant using **Python** to assist in basic tasks to speed up workflow and productivity for personal use
- Created macros using **Python** and **Lua** to provide tactical advantages in games. (Used for testing purposes ONLY)
- Made a calculator app with a GUI for Android using **Kotlin** and **XML** in Jetbrains IDE

Game development

- Used **Unreal Engine** 5 to create 3D FPV games using the blueprinting system and **C++.**
- Made multiple games with AI behaviour to control enemy entities
- Used **Blender**, for 3D modelling to create scenes/objects
- Rendered cutscene animations to improve the experience of the game

Small device repair business - (2020 - 2024)

- PC building - built 2 mid-range gaming PC (2021)
- iPhone 6s screen, battery and speaker module replacement
- Iphone 8 screen replacement
- Iphone XR screen replacement
- Acer Nitro 5 Gaming laptop screen and hinge replacement
- Android tablet screen replacement
- iPad air screen replacement
- Laptop hardware spec upgrades (RAM and SSD upgrades)

Penetration testing

Performed in a **Linux** and a **Windows VM** environment (not for malicious purposes). This helped me gain a thorough understanding of their CLI's, security and network vulnerabilities.
Created a **bash script** which automates:

- Deauthenticating devices from their routers via spoofed deauth frames
- Catching the WPA2 handshake hash when they attempt to reconnect
- Cracking the hash using a wordlist or with a bruteforce attack

Hardware engineering

- Robotic engineering
    - Designed, built, programmed and tested an autonomous robot designed to safely navigate through obstacles using the **Arduino** microcontroller
    - Implemented other means of control, with a universal TV remote and bluetooth via a mobile application
    - Redesigned with a Raspberry pi using **Python,** to be controlled using a **Flask web server** to allow it to be controlled from any wifi enabled device from range
- Arduino prototyping
    - Multiple hardware/software **IoT** projects built and programmed using Arduino's programming language, which based off **C++**, to solve household "problems"
    - Created a room alarm system which alerts my phone via bluetooth when an intruder enters with a numerical keypad system to deactivate the alarm

Programming languages

I'm very competent with **Python** as this is what I mainly program in. However, I'm also very familiar with **C#** in the **.NET Framework**, **Java, Kotlin, C++, SQL, HTML, CSS** and **Lua**.

Education

Hill House School (2016 - till date)
GCSE grades:

- Grade 9: Biology, Chemistry, Physics, English Language and Computer Science
- Grade 8: Further maths, Maths, English Literature and Business