

George Dare-Williams

[WIP]

Personal Statement

I am a Sixth Form computer science and maths student in Year 12, with a keen interest in technology. I am dedicated to learning and developing my skills in programming, IT, software and hardware engineering as I aspire to work in these fields for my future career. I enjoy collaborating with likeminded individuals. In a team I see myself as an execution-oriented developer who performs best with clear objectives and delivers high-quality implementations. I am happy to assume leadership or coordination roles within a group, to help improve the team's performance.

Personal Projects

- **Open LAN chatroom service;** I built and maintain a peer to peer chatroom service which is deployed in my school, users are able to talk to each other using my open source python app which i maintain with git and have a repository for on GitHub
- **Selfhost/homelab system;** I host my own VPN across devices with tailscaled. I host many game servers for myself and friends, as well as a media server and web server.
- **Building IoT devices;** including enabling my devices to be powered on via the internet, remote monitoring cameras for my 3D printer, using a raspberry PI for AI based object recognition.
- **Remote messaging system using esp32;** I created a system to send a message from any device, to an esp32, which would display the message on an LED matrix. I used a server with flask and ubuntu to accept https requests containing the message sent to it from any of my devices. I ran C++ on an esp32. I also used my skills in CAD and 3D printing to create the housing for the device.

IT and Programming Skills

- Programming languages: Python, C++, C#, Javascript and Bash
- Linux: Ubuntu and arch based desktop and server operating systems
- CAD design and 3D printing
- Building applications with raspberry PI, esp32 and arduino devices
- Building, upgrading and repairing computers and consoles