

Danny John Piper

Contact Details

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Education

Current Currently studying a Bsci in Computer Science (Information Security) at Royal Holloway University of London.

A-Level A-Levels in Mathematics, Chemistry, Computer Science, Further Mathematics (A*AAB) from Peter Symonds Sixth Form (in Winchester).

GCSE Ten GCSEs including an 8 in Chemistry and, Maths and; an A in Further Maths.

Experience

Computing Society Committee Member (2021 - present)

- Writing software to automate tasks
- Organising Royal Hackaway v6 (with 250 in-person tickets sold!)
- Technologies: live streaming, camera equipment, OBS, Nginx, RTMP, Python, Selenium, C++, Qt, Go

Monarch Development Volunteer Software Developer (2020 - present)

- Writing open source tournament software for Magic the Gathering
- Self-hosting a Discord bot and, game bot
- Technologies: Qt, C++, C, Cmake, Protobuf, Python, Rust, Github
- Open Source: <https://github.com/MonarchDevelopment/>

Arcio Co-founder (2022)

- Attendance and, timetabling system
- Microservices architecture
- Technologies: Go, Postgres, Nginx, REST, Github, Docker
- Open Source: <https://github.com/arcio-uk/>

Work Experience at IBM Work Experience During Secondary School (2017)

- Shadowed a software tester
- Testing ZOS, using regex and, Java

Personal Projects

I have written many pieces of software as personal projects which can be found on my [Github profile](#). Below is a list of my three favourite pieces of software that I have written, there are many other softwares that I have written.

Squire Desktop (A project with Monarch Development)

- Cross platform GUI tournament management software for Magic the Gathering
- Technologies: Qt, C++, C, Rust, Cmake, Python, cross-lanuage linking
- Open Source: <https://github.com/MonarchDevelopment/SquireDesktop>

Cockatrice Tournament Bot (A project with Monarch Development)

- A bot to host tournaments for an online card game emulator and, save replays
- HTTP API server to allow the Discord bot to control the games
- Technologies: C, C++, Cmake, Python, Protobuf, Websockets, HTTP Server
- Open Source: <https://github.com/djpiper28/CockatriceTournamentBot>

Advent of Code Leaderboard Bot

- A Discord bot to scrape Advent of Code scores and, provide a leaderboard
- Technologies: Go, Postgres, Webscraping
- Open Source: <https://github.com/djpiper28/advent-of-code-discord-bot>

Linux Server Administration and, Self Hosting

- Networking - firewalls, routers and, switches
- Software setup and, maintenance
- Technologies: SSH, (Arch) Linux, Nginx, Jenkins, Postgres, Various Self Hosted Projects

Programming Languages and, Technologies

I have used many programming languages and, softwares, below is a list of the programming languages and, software that I am have used the most. I am always looking to learn new languages and technologies.

Languages • Java • C • C++ • Python • SQL • Go • Rust

Technologies - CI/CD • Jenkins • Github Actions • Docker

Technologies - Database • SQLite • Postgres

Technologies - Web • REST • Websockets • HTTP • Nginx

Technologies - Misc • Linux • Git • Networking