Danny John Piper

I am a software engineer looking to do more software engineering.

Contact Me

• Email Address: djpiper 28@gmail.com • Phone Number: +447541492643 • Linkedin: https://www.linkedin.com/in/djpiper 28

Education

university Diploma of Higher Education in Computer Science

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

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

Experience

Academy Software Engineer at BJSS

- Worked on a new webapp for the CAA to allow for authorisation applications
- Used NextJS (With TS) for the frontend and C# for the backend
- Used Kubernetes and Docker on Azure for deployment

Monarch Development Volunteer Software Developer (2020 - 2023)

- 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/

Computing Society Committee Member (2021 - 2023)

- Software development for numerous automation tasks
- Running the society and, helping to organise events
- Ran two large hackathons whilst volunteering

Royal Hackaway v5-7 (2022, 2023, 2024) Event Organiser / Volunteer

- Computing Society's Annual Hackathon
- Helped to organise v5, which had 76 In person attendees
- Helped to organise v6, which had 121 In person attendees, 46 online attendees
- Volunteered at v7 as a photographer

Arcio Co-founder (2022)

- Attendance and, timetabling system
- Microservices architecture
- Technologies: Go, Postgres, Nginx, REST, Github, Docker

IBM Work Experience During Secondary School (2017)

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

Retail Various Companies (2018 - 2021, Nov 2022 - Jun 2023)

Personal Projects

A representative portfolio of personal software development can be found on my Github profile, indicative projects of my software development work and, respective capabilities are the ones below.

MTG Search Engine (Search Magic cards with a declarative language)

- Parser and interpreter
- Cards are indexed with AVL trees and, Trie trees
- Multithreaded with a userland thread pool

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

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
- Live at: https://tricebot.co.uk

Advent of Code Leaderboard Bot

- A Discord bot to scrape Advent of Code scores and, provide a leaderboard
- Technologies: Go, Postgres, Webscraping

Linux Server Administration and, Self Hosting

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