

# George Honeywood

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Computer Scientist, Royal Holloway graduate. Currently working as an Infrastructure Assistant at GSA Capital.

## Experience

### Junior Software Engineer

*Cudo*

📅 Jul 2021 — Jul 2022

📍 Bournemouth, Dorset

- Helped develop their first Go microservice, as part of an agile team. This reduced risk exposure when exchanging user balances.
- Added metrics to track performance data, using Prometheus and Grafana.
- Worked on their Vue.js web app and Loopback-based API, fixing long-standing bugs and issues in the platform.
- Implemented a Docker based testing workflow to ensure correctness in database interactions.

### Junior Systems Administrator

*Royal Holloway Physics Dept.*

📅 Oct 2019 — Jul 2021

📍 Egham, Surrey

- Migrated from legacy Nagios monitoring system to Icinga to ensure service continuity. This included setting up Icinga Director, which allows new hosts to be added through a web interface.
- Installed & imaged rack mounted servers for use within a Hadoop compute cluster

References available on request

## Education

### B.Sc. Computer Science (Year in Industry), 1st

*Royal Holloway, University of London*

📅 Sep 2019 — Jul 2023

📍 Egham, Surrey

- Final Year Project: offline HTML5 map viewer app, for which I implemented a TypeScript parser for the binary Mapsforge file format. I also developed a canvas-based map renderer.
- Studied modules including: Software Language Engineering, Functional Programming, User-Centred Design, Multi-Agent Systems, Databases, and Operating Systems.

### A-Levels

*Bournemouth School Sixth Form*

📅 Sep 2017 — Aug 2019

📍 Bournemouth, Dorset

- Computer Science (B), Geography (B), Resistant Materials (C), and Physics (D)

## Interests

- Using and contributing to free & open-source software
- Editing OpenStreetMap, using JOSM or Every Door

## Projects

### Web Music Player

Created a Spotify-like online music player for your private music collection, with a Go backend and a Vue frontend. Has an album artwork view, and you can queue up songs.

### The Good Map

Collaboratively developed a cross-platform mobile app (in Flutter) to allow people to find environmentally friendly establishments, using data from OpenStreetMap.

### Employee Appraisal System

- Worked as part of a 4-person team to create a web app, designed to evaluate employees of a company.
- Developed an API in Flask to conform the Requirements Specification and Design Description.
- After development was completed, wrote an Acceptance Testing report, for a delivered solution from another team.

## Hackathons

**Pub Hub** collaborated on a tool designed to find the optimal route for a pub crawl, providing a solution for the travelling salesman problem.

**Metamap** developed a location based social media app for Android, with the concept of only showing posts within a certain radius of the user.

## Homelab

- I administrate a headless server which hosts utilities and storage for my home network. It runs Proxmox VE as a hypervisor, with ZFS to provide storage.
- Each service runs in a separate LXC container, to ensure isolation & security. It also enables me to safely update programs, as you can roll back if issues occur.
- NGINX is used as a reverse proxy, to allow external access to internal services, such as a Nextcloud instance.

## VPS

- I use a small VPS to run other services, like Gitea, which is used to host Git repositories for projects that I am developing.
- As it has a fast internet connection, I also use it as a VPN (through WireGuard) to protect my traffic on unsecured Wi-Fi.