Bobby W. McCann

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Hi, I'm Bobby. I studied **Computer Science** at the **University of Manchester**, graduating with a **1st class** degree in 2019. Since then, I have had four years of experience as a working software engineer at two companies, exploring a wide range of technologies. I'm currently based in south Manchester, and I am looking for a hybrid or remote role where I can solve problems in a robust and efficient manner, whilst learning from more experienced developers.

Skills

Technology	Professional Experience	Utilised
Perl	2½ years	2024 - As the primary backend language at SpareRoom
MySQL	4 years	2024 - At both SpareRoom and DAI
Python	3 years	2024 - For data science reports at SpareRoom as well as on the COMPJudge project at UoM
Docker	2 years	2024 - Maintained the dev tools at SpareRoom
Javascript	4 years	2024 - Frontend work on dev and admin tools at SpareRoom and DAI, as well as a backend language for COMPJudge
Linux	5 years	2024 - Daily as a desktop OS and on web servers at SpareRoom and DAI
GitHub	3 years	2024 - Used extensively for hosting code and configuring CI/CD
GoLang	2 months	2023 - Helped maintain the cloud functions at SpareRoom
Java	1 year	2020 - Backend language at DAI

SpareRoom

Software Developer│August 2021 –

- Backend development for a popular website with many users.
- Designed and implemented new features for the site using **Perl** and **MySQL**, as well as fixing bugs and improving existing features.
- Evaluated ideas and changes by analysing the data using **Jupyter notebooks** and **Python**.
- Assisted in moving our development environment from **Vagrant** to **Docker**.
- Wrote **Google Cloud Functions** in **GoLang** and used **Terraform** to deploy them.
- Improved many parts of our build process, such as speeding up our **Jenkins** build pipeline, and automating actions in our GitHub repo with **GitHub Actions**.

- Created internal tools for the web dashboard, using **JavaScript**, **TypeScript** and **React**.

Digital Applications International (DAI)

Software Developer │ September 2019 - October 2020

- **Java** backend development with **Spring** and **Hibernate**, for the CMS, a system to manage shipping options from warehouses to their customers, and to produce printable labels for parcels.
- Championed unit testing with **JUnit** and **Mockito**.
- Wrote code to connect to external **JSON** and **SOAP** APIs.
- Worked on new and existing **SOAP** APIs for our product.
- Left in October 2020 to pursue new opportunities.

University of Manchester

BSc Computer Science - 1st Class Degree, 2019

- Created COMPJudge as a paid summer project, which is an automated testing system for programming coursework.
    - **Bootstrap** and **JQuery** for the front end and **Node.js** on the backend. Conducted user testing and surveys to improve the UI post launch.
- Also participated in ACM ICPC (International Collegiate Programming Contest) events, including going to University of Bath for the North West Europe regionals.
- Created original problems and organised the Staff Vs Student contest in 2018 and 2019, a ICPC-style event for the Computer Science department.

Projects

- Onlinesweeper - a massively multiplayer online infinite Minesweeper game, with a Node.js backend and a JavaScript frontend. Playable in a browser [here](#) (warning, quite addictive).
- Participated in game jams and hackathons. You can see these mini-projects on my website [bogoblin.com](#).