

Sam Matthews

 <https://github.com/Miyukiichan>

PROFILE

Currently looking for full time opportunities in the area of commercial software engineering and front-end development. Enthusiastic, and intelligent hard worker with a keen desire to learn new technologies with the ability to work independently and as part of a team.

WORK EXPERIENCE

Rockfield Software Ltd

Swansea

Graduate Software Developer

July 2019 - October 2020

Worked as part of the UI team developing 3 desktop applications for use with the company's flagship software product *Elfen*. Learned *Qt* by developing an internal tool that reduced workload massively when using *Squish*. Went on to core development after less than two months of training.

Main responsibilities include:

- Specifying, designing and implementing new features using C++ and *Qt*
- Bug fixing and improving the overall workflow and design of the product
- Responding to the changing needs of the in-house *Elfen* users as well as external customers
- Assisting and mentoring more junior interns both technically and personally
- Writing feature driven automated tests for each *Jira* task using *Squish*
- Taking part in bi-weekly sprint meetings as well as semi-daily *Kanban* meetings

KEY SKILLS

- Commercial experience with: C/C++, *Qt*, *Squish* (with JavaScript), Bash, Git
- Experience with: C#, ASP.NET, MVC, HTML, CSS/Sass, Linux, Python, Java, JavaScript, \LaTeX , Markdown, ROS
- Software engineering and professional skills: *Kanban*, *Jira*, Visual Studio, JetBrains, Agile, Test Driven Development (TDD), Source Control
- IT skills: PC hardware configuration, Microsoft Office, command line utilities (e.g. SSH, vim)
- Able to solve complex problems and apply unique and efficient solutions to new scenarios
- Can work independently or as part of a team to accomplish tasks that require a diverse skill set
- Ability to organise own workload and prioritise tasks based upon requirement deadlines and level of importance
- Excellent verbal and written communication to a high standard
- Confident with learning new technologies with ease and applying those skills to projects
- Experience with responding to the changing needs of clients in an agile environment

NOTEABLE PROJECTS

Squish Results Viewer

August 2019 - September 2019

- In-house tool for viewing *Squish* automated test results and quickly comparing datafile failures
- Specified the tool with the users as a solution to the previously identified problem in the team's workflow
- Went through various iterations (sprints) of development adding more features and customisation options
- Upon completion, the tool saw effective daily use by the whole UI team including myself
- Also used as a way to learn *Qt* as well as the company's coding standards

Final Year Project

January 2019 - May 2019

- Created a text based application for managing large mobile robots using C++ and *ncurses*
- Able to manage running processes easily, start and control the robot as well as see general status information at a glance
- Optimised the application for safety and efficient use of computing resources while still having a seamless user experience
- Responded to frequent changes to requirements using an agile approach to development
- Code and report located at https://github.com/Miyukiichan/robot_manager

Ncurses File Manager

- Ongoing pet project to create a fast and lightweight TUI file manager written in C using *ncurses*
- Inspired by dissatisfaction with existing projects such as *ranger* and *cfiles*
- Can navigate directories, open files and view previews (including image files) in the terminal
- Highly customizable to the users needs using a configuration header file
- Code located at <https://github.com/Miyukiichan/CurseFM>

EDUCATION

Aberystwyth University

Bachelor of Science in Artificial Intelligence and Robotics - First

September 2016 - June 2019

Bishop Gore Comprehensive

GCSE's and A-Levels in Mathematics, ICT and Sociology - ABC (Respectively)

September 2009 - June 2016

INTERESTS AND HOBBIES

- Music playing and composition
- Linux programming and automation
- Gardening and self sufficiency
- Walking and running

REFERENCES

Upon Request