

Quinn Paterson

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Education

Bachelor of Engineering, Software Engineering

Graduated Spring 2021

University of Victoria, Victoria, BC

Technical Skills

- Programming Languages: C, C#, Java, Kotlin, Python, HTML, CSS, MySQL, pSQL, Javascript
- Testing & Debugging: C, Java, Javascript, Embedded systems
- Software: Microsoft Office Suite, JIRA, Testrail, Confluence, Microsoft Visio, Unity Engine, Android Studio, Eclipse, NetBeans, Splunk, PyCharm
- Packages and protocols: Selenium, Pytest, Modbus, SCPI, Telnet, IP/TCP
- Technical reports, QA Reports, Requirements documents

Work Experience

Test Lead,
Schneider Electric

May 6, 2024–Sept 23, 2024

- Worked as a test lead responsible for providing test framework, test support, and test automation for upcoming hardware product
- Designed a hardware rig for testing various electrical, software and mechanical inputs and outputs as well as integrated system testing
- Used requirements to develop a test plan and test suite for testing upcoming hardware system
- Developed libraries for handling communication with MCU bootloader, BACnet communication and microcontroller for electrical inputs

Test Software Developer,
MDA Space

Jan 26, 2023 - May 6, 2024

- Worked as a test software developer at MDA, responsible for automating various hardware tests in order to facilitate development using python
- Was responsible for writing code to communicate between various devices on network using serial, telnet, scpi and other communication protocols
- - Working with numerous groups / stakeholders at once involving requirements gathering, communication back and forth as well as validation and ongoing updates

Embedded / Android Developer
Medipense

Sept 28, 2021 - December, 2022

- Worked to debug, and add feature improvements to a pre-existing hardware system, working with various hardware constraints on memory and older operating system
- Was responsible for planning and developing the complete implementation of a new android pill tracking application following Google architecture recommendations
- Developed large suite of automated tests to expand coverage of pre-existing features, as well as full coverage of all new app features
- Wrote driver code for integrating new hardware pieces, and debugged pre-existing code.

Project Founder and Leader
Spontaniius

Sept, 2020 - Sept 2021

- Founded team of student volunteers and managed project in order to create application
- Designed and implemented a socialization focused app in Android
- Developed front end through Java / Kotlin, developed back end using Nodejs
- Planned and implemented serverless architecture for back end of application on AWS and Google Cloud (Lambda, Rds-Psql, and Cognito) via developing APIs
- Managed git repo for project, performing code review and helping to merge in branches from varying participants.

Middleware Development co-op
ICBC

April 29, 2019 - August 30, 2019

- Migrated various SOAP and MQ services from older IBM platforms to IBM App Connect.
- Created an internal web application for updating documentation for connections between services using Sharepoint as its backend. Developed using HTML, CSS, Javascript, Angular
- Created an automated testing package to maintain future quality for the internal application.
- Created some customized Splunk dashboards for various error types.

Quality Engineer

Millson Technologies

September 25, 2017 - December 22, 2017

- Designed and implemented a comprehensive automated testing system for multimedia device controller using C#, also an automated test suite / reporting system using Selenium, NUnit
- Debugged multimedia embedded system, and added new features using C
- Prototyped and documented implementation of IoT features into multimedia device
- Developed a web interface to control IoT devices.

Dev Support QA

Electronic Arts

January 21, 2017 - September 25, 2017

- Producing test cases for web pages and elements.
- Performed HTML, Javascript and CSS Inspection.
- Test case automation using Selenium, JUnit.
- Organizing test suites / organizing test runs with other teams.
- Bug Verification & backlog grooming.
- Used Python to create tools to improve quality of work including web crawlers, and a browser tool for opening a website across all locales
- API testing

Core Skills

- Communication:
 - Working with development team at Millson technologies to clarify testing requirements and desired outcomes of edge cases.
 - Coordinated fixes, testing plans and produced feature requests working with a team of engineers while working at Electronic Arts.
 - Extensive experience working with team members on school projects that delivered exceptional results
 - Successfully resolved customer disputes while employed in the service industries
 - Experience with, and sincere enjoyment of, public speaking and debate.

- Organization:
 - Prioritized bugs, delegated tasks for external testing and took part in Sprint planning while working at Electronic Arts.
 - Reduced the amount of space occupied by files, and the time to locate physical files, by organizing and introducing a significantly improved filing system at Jones & Co law firm.
 - Was recognized by A&W for the operational efficiencies and an improved customer experience as a result of my identification of work that could be done prior to rush hour to mitigate the impact of rush hour volume.
- Analysis & Problem Solving:
 - Performing root cause analysis on live site issues and searching for root cause of various bugs
 - Experience isolating issues while trying to work through IoT implementation
 - In software engineering projects as well as home experiments with chemistry, I've worked to break problems into solvable parameters and find the best solution.
- Attention to detail:
 - Looked to document and cover all cases for web controller of a home entertainment system while at Millson.
 - Found hundreds of bugs during development process on websites.
 - Helped others by identifying errors in their programming assignments.

References

Terry Fagen, employer at Medipense
Alex Landovoski, supervisor at Medipense
Chris Letnik, supervisor at Millson Technologies