Emily Wiseman

Third-year Computer Engineering Student from Newfoundland, Canada

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Skills

Languages: Java, C/C++, Python, JavaScript/TypeScript, HTML, CSS, Shell and Bash scripting

Tools: Jenkins, Atlassian Suite (JIRA, Bitbucket, and Confluence), Git, VxWorks, and Android Studio

Experience

Curtiss-Wright / Software Developer Intern

SEPTEMBER 2019 – DECEMBER 2019, KANATA ON

Spearheaded **Static Analysis Testing** integration into the Curtiss-Wright Linux BSP development lifecycle using DevOps best practices.

- Designed a **REST API**, using **Python**, to broker requests between **Jenkins** Pipelines, **Bitbucket**, and Linux **Virtual Machines**. This API solved a significant design challenge involving the incompatibility of existing software.
- Created **command-line scripts** (Shell and Bash) to simplify the day to day use of Static Analysis Software used by Curtiss-Wright. This enabled developers to use the tool with little to no ramp-up time.
- Performed manual testing on Curtiss-Wright ruggedized boards, running Wind River **VxWorks**, thoroughly and on time to ensure a Curtiss-Wright BSP product met its release date.

Wind River / Web Development Intern

JANUARY 2019 – APRIL 2019, KANATA ON

- Designed and implemented a **full-stack web application**, following agile development practices, which pulled data from multiple sources and displayed it on a dynamic dashboard. This allowed management at Wind River to quickly view, filter, and save project statistics.
- Quickly ramped up with an Eclipse-based DITA tool to resolve a key customer-facing issue within a large documentation set for a major product release.

Wind River / Software Intern

JANUARY 2018 – AUGUST 2018, KANATA ON

Assisted the Wind River Helix Device Cloud team in improving user onboarding practices and developed management tools for Wind River's Technical Publications group.

- Completed and presented a competitive analysis of cloud services for Wind River IoT products. The competitive analysis presented product management with industry best practices for IoT cloud onboarding.
- Prototyped a device weather simulator using **VxWorks** as a proof of concept for a Wind River IoT product's new user onboarding process
- Created a **Python** application for to transfer and parse data to a Microsoft Excel spreadsheet
- Improved the frontend of an internal website using **Angular** (a **JavaScript** frontend framework). This improvement allowed Wind River staff to retrieve operations information for course delivery more reliably.

Projects

Bulb github.com/not-so-wiseman/Bulb
An android companion app for brightspace © D2L that allows students to view their grades and all their upcoming due dates on the go. Built using Android studio, Python, and Flask.

Personal Website </> ewiseman.ca
My portfolio site built using React JS and simple CSS.

Education

Bachelor of Computer Engineering
MEMORIAL UNIVERSITY OF NEWFOUNDLAND, ST. JOHN'S, NL CANADA
SEPTEMBER 2016 – MAY 2022 (EXPECTED)

Awards & Achievements

Memorial University of Newfoundland Endowment Fund Scholarship
90% HIGH SCHOOL GRADUATION AVERAGE

Publication in the 24th Annual Newfoundland Electrical and Computer Engineering Conference (NECEC)
WISEMAN, E., VARDY, A. (2015), "DETECTING COLLISIONS ON THE SPHERO ROBOT"

City of Mount Pearl Science Technology Engineering and Math Award (2015)