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Experience

Software Analyst Kamloops

THOMPSON RIVERS UNIVERSITY May. 2019 - Present

- Spearheaded Docker adoption in the IT organization for fast prototyping and quick deployment of self-contained solutions.
- Developed and designed a web app using React and Flask that worked with GTFS to show estimated transit arrival and visualized transit data on Google Maps
- · Replaced the organization's phone book with a modern web-based application that enabled full text fuzzy string matching using both Levenshtein string distance and Soundex pronunciation.
- Developed using Python and Vanilla Javascript a dashboard using the ticketing system API that allowed managers to visualize up to date ticket information
- Created a tensorflow classifier to automatically classify and create tickets for service requests from emails.
- Designed, developed and deployed scalable MVC web apps with Flask on Azure using Azure Active Directory and SQL
- Migrated Legacy in house applications to scalable Azure SQL Server webservices

IT Service Desk Analyst Kamloops

THOMPSON RIVERS UNIVERSITY

Feb. 2018 - Present

- · Provided first line tech support to students, staff, and faculty to assist in both software and hardware troubleshooting on Windows and Unix systems.
- Used Powershell and PDQ to automatically deploy Linux and other applications to remote computers.
- Automated ERP interactions with Python and SQL to streamline processes and reduce cognitive load.
- Used AutoHotKey, Powershell, and Python to automate Active Directory resulting in 90% decrease in time taken with password resets.

Student Researcher Kamloops

- THOMPSON RIVERS UNIVERSITY July. 2016 - Sept. 2016 • Research alternative privacy focused methods of counting the population of people in an area.
- Implemented an accurate and effective queue monitoring solution for the Campus' Tim Hortons location using passive WiFi monitoring. Presented at the Undergraduate Conference and is currently used in production in TRU's Mobile App
- Used Google Cloud Platform to create a website to display Tim Hortons queue status that reached over 2,200 monthly visitors.

Education

Thompson Rivers University

BACHELOR OF COMPUTING SCIENCE 2019

Specialization in Software Engineering; Deans List

Selected Courses: Ethical Hacking, Cloud Computing, Data Science, Bioinformatics

Volunteer

TRU COMPUTING SCIENCE CLUB.

Instructor Kamloops

BIG LITTLE SCIENCE CENTRE Jun. 2017 - Jun. 2017

- Developed curriculum to teach elementary aged students an introduction to electronics and programming using the Arduino platform.
- Used project based teaching to customize learning methods on an individual basis.

President Kamloops

Managed events and oversaw social media interaction for the second largest club at TRU

• Organized the largest L.A.N. party in Kamloops for two consecutive years.

Contestant Vancouver

IEE ACM International Collegiate Programming Contest

2017 - 2018

2017 - 2019

Kamloops

- Represented TRU 2 years running at I.C.P.C. Pacific North West Regional Competition.
- · Consistently archived the highest out of previous TRU competitors.
- Solved problems using **Python** and **C++** in a high pressure fast paced environment.

2019 EVAN MACKAY · RÉSUMÉ **Presentations**

Snack and Learn: Machine Learning

Kamloops

Presenter April 2019

- Explained the basics of machine learning.
- · Showcased a classifier that was trained to automatically classify emails into respective categories in the ticketing system

Snack and Learn: Python for Data and Automation

Kamloops

Presenter Jan. 2019

· Showcased to the TRU IT department how python can be used to manipulate data and automate tasks

Projects

British Columbia Pub Crawl Maker

iTel Networks

HACKATHON GROUP MEMBER Nov. 2019

- Used British Columbia Liquor Licence open data with the Google Maps API to find the GPS location of every pub in the province.
- · Used the GPS location on a Cartesian plane along with the traveling salesman algorithm to find the shortest pub crawl of all pubs in B.C.

Utilizing Probabilistic Subsequence Methods and Markov Chains: Identifying Relationships in Protein Sequences

Thompson Rivers University

School Project April 2019

- Used **Bloom Filters** and **Markov Chains** to align protein sequences
- Presented this paper at the end of year Computing Science Showcase at TRU

Class Elective Finder Thompson Rivers University

School Project April 2019

• Devloped an Android app using Android Studio and the school API to allow students to search for electives that fit within their given schedule

BC Ferries Command Line Interface

West Vancouver

Personal Project August. 2017

• Reversed Engineered BC Ferries web interface and used **Python** to create a command line interface to assist with data collection and analytics.

Bug Bounty Kamloops

THOMPSON RIVERS UNIVERSITY 2018 - Present

• Discovered and responsibly reported several high priority XSS and other vulnerabilities throughout different systems.

Publications

Using RSSI to Estimate the Number of Users in a Queue

Kamloops

RESEARCHER AT TRU UNDERGRADUATE RESEARCH CONFERENCE

2018

• Researched the feasibility of using RSSI to estimate the number of users in the Tim Hortons queue on campus.