

JOHNNY LEUNG

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Education

University of Waterloo
(2019 - Present)
Expected Graduation 2024
Candidate for Honours
Bachelor of Computer
Science

Skills

Languages:

Java, HTML, Python, C,
Scheme, Kotlin, Javascript,
C++, CSS

Technologies:

React, Android Studio,
TD Da Vinci API, TensorFlow,
NumPy, scikit-learn

Tools:

Git, Raspberry Pi, Maven,
Node.js, Firebase, Anaconda

Activities

Vikings Athletic Council
(2017-2018)

- Promotions team leader

Bantam Boys Rugby
(2017-2018)

- Assistant head coach

Provincial Election 2017
(2017-2018)

- Campaign aid

Awards

Athletic Service Award
Burnaby North Secondary
(2018 & 2019)

AP Capstone Diploma
CollegeBoard
(2019)

AP Scholar
CollegeBoard
(2018 & 2019)

Projects

🔗 **Breast Cancer SVM Model — Python** Jan 2020

- Extracted 699 cases of breast cancer data from the UCI Machine Learning Repository to train a program to predict whether a tumor is benign or malignant
- Extrapolated data regarding cell types and sizes and graphed to find correlation with cancer types
- Used **TensorFlow** and the SVM model for predicting results to a 95% accuracy

🔗 **Mapa (Hack the North 2019) — Javascript** Sep 2019

- Utilized TD's **Da Vinci API**, **Firebase API**, and **Google Maps API** to create a web app with a heatmap for displaying transaction hotspots in Toronto
- Developed the front-end portion of the project, using **React** and **Firebase** to retrieve and convert data generated from back-end into information that the **Google Maps API** can interpret
- Coordinated with a team of hackers and delegated work to each team member's strengths

🔗 **Blackjack Plugin — Java** Aug 2019

- Designed and implemented a Minecraft plugin that allows the user to play Blackjack inside of the game
- Used the **Spigot API** to access game methods and the **Vault API** for incorporating the plugin into a popular in-game economy
- Established a chip betting system and a dealer using in-game items that simulates a casino and makes realistic dealer decisions

🔗 **Raspberry Pi Temperature Sensor — Java** May 2018

- Created a portable program that executes on the **Raspberry Pi** to remotely detect temperatures using Phidget sensors
- Collected and transmitted data from the **Raspberry Pi** wirelessly to laptop via **SSH**
- Implemented graphing system using to graph results and find averages, highs, and lows

Work Experience

Lifeguard/Swim Instructor (2018 - Present)
City of Burnaby

- Taught swimming skills and safety to people of all ages
- High-level of first aid training and knowledge and careful attention to detail to oversee patron safety and prevent hazards in the pool

Merchandiser/Cashier (2016 - 2018)
Shoppers Drug Mart

- Duties include cashiering, stocking shelves, basic cleaning, and customer service