

# Ken Johnson

Computer Engineering Student at the University of British Columbia

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## TECHNICAL SKILLS

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**Programming:** Java, Python, C++, C, HTML, React, JavaScript, CSS, Swift

**Software Tools:** Git, Docker, Google Cloud, Firebase, PyTorch, IntelliJ, Visual Studio Code, MATLAB

## EDUCATION

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University of British Columbia | Vancouver, Canada

September, 2018 - May, 2023

*Bachelor of Applied Science, Computer Engineering, Co-op Program*

Co-op: Available for 4 months beginning May 2020

Dean's Honour List (2019), Workplace Hazardous Materials Information System Certificate

## TECHNICAL PROJECT EXPERIENCE

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**Language Learning App** | Personal Project

February, 2020 - Present

- Designed a program that takes a URL, scans the text on the page, picks out words of interest and translates them to some target language specified by the user using the **Google Cloud API** and **Python**
- Developed a program that creates flashcards and questions based on these sets of words using **PyTorch**

**Optimization Algorithm/Front End Development** | UAS Engineering Design Team

July, 2019 - Present

- Implemented a dynamic programming approach in Python to create an optimized algorithm to find the shortest path through a number of given waypoints
- Designed the front end to implement the "find shortest route" algorithm on a map using **React Leaflet**
- Utilized GitLab, the command line interface, **Docker**, Confluence and Jira throughout projects

**Personal Portfolio Website** | Personal Project

January, 2020 - February, 2020

- Designed a personal portfolio website (<https://www.ken-k-johnson.com>) from scratch using **React**
- Developed passion for front end development utilizing animations and responsive designs

**iOS Raspberry Pi Controller Application** | Class Project

February, 2020 - March, 2020

- Developed an iOS application that could control our **Raspberry Pi** robot remotely
- Utilized **Firebase** to interface between the Raspberry Pi and the iOS device, **Swift** to develop the application and **Python** to program the Raspberry Pi

**WikiMediator** | Class Project

November, 2019 - December, 2019

- Developed a **Java** program that interfaces with the Wikipedia API to obtain specific information
- Utilized **threading** to allow multiple clients to access this server simultaneously

## WORK EXPERIENCE

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**Math Tutor Network** | Math Tutor | Vancouver, BC

November, 2018 - Present

- Tutored high school students in Canada and Japan in pre-calculus math and problem solving skills
- Developed passion for helping those around me learn and succeed