

# Keyon Jerome

## Contact Information

### Website

keyon.io

### Email

keyon.jerome@uwaterloo.ca

### GitHub

keyonjerome

### LinkedIn

keyonjerome

### Devpost

keyonjerome

## Languages (Proficient)

- Java
- Python
- HTML/CSS
- JavaScript/TypeScript

## Languages (Familiar)

- C, C++
- SQL
- PHP
- Dart
- Bash
- Kotlin

## Frameworks

- Android
- Flutter
- Angular
- OpenCV
- Node.js
- React

## Tools and Infrastructure

- Firebase
- Linux
- Git, GitHub

## Experience

### Media & USB Infotainment Developer | May 2021 – Aug 2021 **Ford Motors**

- Developed logic infrastructure in **Kotlin** and **Java** for an **Android embedded system** environment.
- Synchronized song and media playback speeds across USB media playback app, connecting vendor implementation with Ford tools.
- Interfaced with **Android debugging tools** (ADB) to create media playback tools and functionality for vehicle when USB devices are plugged in.
- Developed automatic unit-testing infrastructure for vendor plugin implementation via **Jenkins** and Android tools.

### Fullstack Developer, Workshop Lead | Feb 2021 – July 2021 **EngHack**

- Designed mentorship Discord bot and ticketing system using **Node.js** running on **Google Cloud** for hackers and mentors to connect.
- Developed EngHack website frontend from Figma design using **React**.
- Co-hosted Intro to **Git and GitHub** workshop on Hopin, introducing 60+ students to version control systems.

### Team and Programming Lead | Sept 2016 – June 2020 **Spartan Robotics**

- Led **Java** controls programming of an 125-lb robot each year [[GitHub](#)].
- Interfaced with limit switches, gyroscopes, and other sensors for automatic robot control.
- Raised **\$6,000** in sponsorships for team in five months.
- Managed a team of **40** students with bi-weekly meetings.

### Software Developer | July 2019 **STEP Software**

- Developed a note-taking web app using **Angular**, **PHP**, and **MySQL**.
- Implemented a **phpMyAdmin** server backend, using **Agile** workflow and database fundamentals.

## Projects

### Bonfire - NSBEHacks 2021 Winner | Feb 2021 **Devpost**

- Developed **React** frontend, database architecture, and routing for a web app to connect users with members of their own cultural heritage.

### Robotics Computer Vision - BOS 2019 Winner | June – Aug 2019 **GitHub**

- Implemented real-time object detection using **OpenCV (Python)** on a **Raspberry Pi** with a Tensorflow prediction model.
- Created **PID** protocols for robot to autonomously drive to game objects.
- Generated a machine-learning model using Microsoft's **CustomVision.AI**.
- Won the 2019 BOS Programming contest, worth **\$2,500** in sponsorships.

## Education

### University of Waterloo | Sept 2020 – Present

- Candidate for BASc, Honours Mechatronics Engineering, Co-op
- Relevant Coursework: **Data Structures and Algorithms (C++)**
- Extracurriculars: UW Robotics, Engineering Society, 14 hackathons