

Keyon Jerome

Contact Information

Website

keyon.io

Email

keyon.jerome@uwaterloo.ca

GitHub

github.com/keyonjerome

LinkedIn

linkedin.com/in/keyonjerome

Devpost

devpost.com/Keyon-Jerome

Frameworks

- Flutter
- Angular
- OpenCV
- Bootstrap

Languages (Proficient)

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

Languages (Familiar)

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

Tools and Infrastructure

- Firebase
- Linux
- Git, GitHub

Experience

Media & USB Developer, Co-op | May 2021 – Present **Ford Motor Company**

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

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

- Created 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 implementation 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** 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, Co-op | July 2019 **STEP Software**

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

Education

University of Waterloo | Sept 2020 – April 2025

- Candidate for Bachelor of Applied Science, Honours Mechatronics Engineering, Co-op
- Relevant Coursework: **Data Structures and Algorithms (C++)**

Projects

Computer Vision for FIRST Robotics | June – Aug 2019 **GitHub**

- Implemented real-time object detection using **OpenCV (Python)** on a **Raspberry Pi**.
- 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.

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

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