Keyon Jerome

Personal Info

Website
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GitHub
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Frameworks

- Angular
- Flutter
- OpenCV
- Bootstrap

Languages (Proficient)

- JavaScript
- HTML/CSS
- Java
- Python

Languages (Familiar)

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

Tools and Infrastructure

- Firebase
- Linux
- Git, GitHub
- Adobe Illustrator

Experience

Software Developer, Co-op | 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.

Python Programming Tutor | 2018 — Present

- Developed and issued **Python** lesson plans covering programming fundamentals such as data types, functions, and inheritance.

Team and Programming Lead | 2016 — 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.

Education

University of Waterloo | 2020 — 2025

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

Projects

Sendable | 2019 — Devpost

- Developed an **Angular** web app for Canadians to request data collected on them by companies.
- Won the Norton Rose Fulbright prize for **UI design**.

LiveLaunch | 2020 — Devpost

- Leveraged the **Flutter** framework, rocket data APIs, and the **EchoAR** framework to create an augmented-reality view for 3D rocket models.
- Developed a cross-platform mobile app allowing users to view information for rocket launches.

Computer Vision for FIRST Robotics | 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.

Achievements & Awards

- ECOO– Computer Science Contest; Round 2 Semi-Finalist | 2018, 2019