

KEYON JEROME

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EDUCATION

University of Waterloo

Bachelor of Applied Science Honours Mechatronics Engineering

Waterloo, Ontario

September 2020 - April 2025

WORK EXPERIENCE

STEP Software Inc.

Software Co-op

London, Ontario

July 2019 - July 2019

- Developed a journalling app using Angular and shadowed the workflow of professional software developers.

Private Tutoring

Python programming tutor

London, Ontario

October 2019 - Present

- Taught Python and data science fundamentals to an eighth-grade student.
- Created bi-weekly lesson plans specifically tailored to student's skills and needs.

Mother Teresa Catholic Secondary School

Student Council - Minister of Communications

London, Ontario

September 2019 - June 2020

- Communicated information about school events and activities to our student body.
- Documented and assisted at each major school event, such as future student parent information nights, and private events for international students.

Spartan Robotics

Team Captain

London, Ontario

September 2018 - June 2020

- Managed a team of 35-40 students for 2 years.
- Hosted educational outreach events to elementary school students in our community.
- Raised \$6,000 in sponsorships for our team in five months.
- Taught systems and robotics-level Java concepts to new student programmers.

SKILLS

Programming Languages: Java, HTML/CSS, Angular, SQL, PHP, Python, Dart/Flutter, Arduino

PROJECTS

LiveLaunch *Flutter, EchoAR*

<https://devpost.com/software/livelaunch>

A cross-platform mobile app that allows you to view upcoming dates and information for rocket launches into space. Developed in 36 hours at HackTheNortheast.

FRC ROBOT 2018, 2019, 2020 *Java*

<https://github.com/5288TheSpartans/DeepSpace2019>

Led the development and project management of ~100 pound FIRST Robotics Competition (FRC) robots using Java, for three years. This has involved interfacing with industry-level sensors (encoders, gyroscopes, limit switches, beam-break sensors, etc.), motion profiling, and more.

FRC Vision 2019 *Python, Tensorflow*

<https://github.com/keyonjerome/FRC-CustomVision.AI>

An embedded software project deployed on a Raspberry Pi to detect FRC field objects using computer vision and machine learning. Winner of the 2019 BOS Raspberry Pi Contest, worth \$2,500 in sponsorships.

Event Mode *Angular, Google Firebase*

<https://eventmode.co>

An Angular-based web app that allows students in Ontario to connect with events in their community. Developed in 24 hours at Hack The Hammer II.