Keyon Jerome

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SUMMARY OF QUALIFICATIONS

- Raised $6,000 in sponsorships for a robotics team in five months; $2,500 from winning a Raspberry Pi programming contest.
- Managed the programming, fundraising, and development of 125-lb FIRST Robotics Competition (FRC) robots for three years.
- Taught industry-level Python and data science fundamentals to an eighth-grade student.
- **Programming Languages:** Angular, HTML/CSS, JavaScript, Python, Java, SQL, PHP, Dart, Arduino C

EDUCATION

University of Waterloo — Waterloo, Ontario
Candidate for Bachelor of Applied Science, Honours Mechatronics Engineering — September 2020 - Present

RELEVANT EXPERIENCE

STEP Software Inc. — London, Ontario
Software Co-op — July 2019

- Developed an interactive note-taking app using Angular 8, MYSQL, and PHP with a manually-hosted server backend.
- Learned Agile workflow, and database fundamentals from STEP engineers.

Self-Employed — London, Ontario
Python Programming Tutor — October 2019 - Present

- Curated student-specific lesson plans covering Python and data-science fundamentals.
- Delivered lesson plans as well as one-on-one skill coaching and training to an eighth-grade student.

Spartan Robotics — London, Ontario
Team Captain & Programming Lead — September 2016 - June 2020

- Raised $6,000 in sponsorships for our team in five months by business presentations and winning a 2019 programming contest.
- Taught systems and robotics-level Java concepts to new student programmers.
- Led the design, programming, and budgeting of a 125-lb robot each year.
- Managed a team of 40 students with bi-weekly meetings, and outlining goals using a Kan-Ban system.
- Hosted educational outreach events to K-12 students in our community, teaching Scratch programming.

PROJECTS

FIRST Robotics - Robot Code 2018 - 2020 | *Java* — GitHub Page

- Implemented a Java controls structure for communication between operator and robot components (e.g: robot drivetrain, operator joysticks, internal safety and power-distribution logic).
- Interfaced industry-level sensors with a PID control system for automatic control of robot subsystems (encoders, gyroscopes, limit switches, beam-break sensors)

Robotics - Computer Vision - 2019 | *Python, Tensorflow* — GitHub Page

- Deployed and created an automatically-run software project on a Raspberry Pi and robot to detect and automatically drive to competition-field objects using computer vision and machine learning.
- Winner of the 2019 BOS Raspberry Pi Contest, worth $2,500 in team sponsorships.

LiveLaunch - 2020 | *Flutter, EchoAR — HackTheNortheast* — Devpost Page

- Developed a cross-platform mobile app that allows you to view upcoming dates and information for rocket launches.
- Leveraged Google's Flutter framework, rocket data APIs, and the echoAR framework to create an augmented-reality view of each rocket.