





Lucas Harvey

Software Engineering at University of Waterloo

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SKILLS

Programming Languages:	Python, R, C, JavaScript, HTML, CSS, PHP, MySQL, Swift, Objective-C, C
Tools and Frameworks:	R Studio, Git, XCode, React.js
Languages:	Fluent in English and French

WORK EXPERIENCE

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| <ul style="list-style-type: none">• IntelliSports
intellisports.xyz
Spring 2018 | Research Intern
<i>R, R Studio, Objective-C, XCode</i> <ul style="list-style-type: none">• Explored the physics behind the sport of curling for the development of a performance-based mobile application• Automated the data analysis of large data sets of gyroscope, accelerometer and magnetometer readings using linear regression in R Studio• Discovered new findings regarding the motion of the curling stone never observed in the research community |
| <ul style="list-style-type: none">• Nexchange
nexchange.ca
2017 - 2018 | Lead Developer and Founder
<i>JavaScript, HTML, CSS, PHP, MySQL</i> <ul style="list-style-type: none">• Founded a web-based service that supports students with learning difficulties and saves an average of 15 hours per week of manual labour• Developed a customized front-end experience using JavaScript and HTML• Built a back-end in PHP consisting of over 30 endpoints interacting with a MySQL database• Implemented secure authentication using JSON Web Tokens from scratch• Created a mobile-friendly user interface using dynamic CSS |

PROJECTS

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| <ul style="list-style-type: none">• VisionLock
Fall 2018 | <i>Python, OpenCV, Dlib</i> <ul style="list-style-type: none">• Developed a home security system capable of performing facial recognition, unlocking a door and greeting the resident with text to speech conversion |
| <ul style="list-style-type: none">• CLIMotion
Hack the North
2018 | <i>JavaScript, Shell</i> <ul style="list-style-type: none">• Created the user interface for a project involving computer vision which allows users to interact with the command line using physical gestures |
| <ul style="list-style-type: none">• GraphGEN
Spring 2017 | <i>JavaScript, HTML, CSS</i> <ul style="list-style-type: none">• Developed a web-based mathematical graphing application capable of plotting points, drawing functions and determining the best linear fit for a given data set |

EDUCATION

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| <ul style="list-style-type: none">• Bachelor's of Software Engineering
2018 - Present | University of Waterloo
3.95 GPA
President's Scholarship of Distinction |
| <ul style="list-style-type: none">• Diploma of College Studies
2016 - 2018 | John Abbott College
R Score of 37.5 and Dean's List Recipient (Top 0.5% of school) |