Lucas Harvey

/LucasHarvey lucasharvey.me

lucas.harvey@uwaterloo.ca

/lucas-harvey

Software Engineering at University of Waterloo



Swift, Objective-C, JavaScript, HTML, CSS, PHP, MySQL, C, Shell, R **Programming Languages:**

Tools and Frameworks: XCode, React, Apache, R Studio, Git

Languages: Fluent in English and French

JavaScript, HTML, CSS, PHP, MySQL

WORK EXPERIENCE

Nexchange **Lead Developer and Founder**

nexchange.ca 2017-2018

· 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

IntelliSports Research Intern

intellisports.net R, R Studio, Objective-C, XCode

· 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 R Studio

· Discovered new findings regarding the motion of the curling stone never observed in the research community

</> PROJECTS

Spring 2018

VisionLock Python, OpenCV, Dlib

Fall 2018 · Developed a home security system capable of performing facial recognition, unlocking a door and greeting the resident with text to speech conversion

CLIMotion

Hack the North · Created the user interface for a project involving computer vision which allows users to interact with the command line using physical gestures 2018

JavaScript, HTML, CSS **GraphGEN**

> · 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

Spring 2017

Bachelor's of University of Waterloo Software Engineering

2018 - Present President's Scholarship of Distinction

Diploma of John Abbott College

College Studies R Score of 37.5 and Dean's List Recipient (Top 0.5% of school)

2016-2018