Lucas Harvey

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Software Engineering at the University of Waterloo



Programming Languages: SQL, PHP, Objective-C, Javascript, HTML, CSS, C++, C, Swift, R

Tools and Frameworks: XCode, MySQL, Git, React Native, Expo, React.js,

WORK EXPERIENCE

IntelliSports

Full Stack Developer Intern

intellisports.ca

Objective-C, XCode, PHP, MySQL

Summer 2019

- Responsible for end-to-end development of a leveling up system to incentivize long-term user engagement through gamification.
- Redesigned main component of the app for an improved user experience, resulting in a 30x increase in feature use.
- Decreased leaderboard load time by 500% by optimizing SQL queries and implementing infinite scrolling for dynamic data.

IntelliSports

Research Intern

intellisports.ca

Objective-C, XCode, R, R Studio

Spring 2018

- · Automated analysis of large data sets of sensor readings using linear regression in R Studio.
- Explored the physics behind the sport of curling for the development of a performance-based mobile application.
- · Discovered new findings regarding the motion of the curling stone never observed in the research community.

PROJECTS

PartyFinder

React Native, Expo, Firebase

partyfinder.ca Summer 2019

- · Built crowdsourced mobile app to help students find events happening near them with live ratings.
- Utilized various Google APIs to propose relevant address suggestions and locate events on a map.
- Led a team of programmers, designers and marketers and amassed over 800 downloads in one week.

VisionLock

Python, OpenCV, Dlib, Raspberry Pi

Fall 2018

- · Developed home security system capable of unlocking a door with a servo motor and greeting the resident by name with text to speech conversion.
- · Leveraged OpenCV, Dlib and Haar Cascades to perform facial recognition efficiently within the constraint of limited computational resources onboard the Raspberry Pi.

Nexchange

JavaScript, HTML, CSS, PHP, MySQL

nexchange.ca 2017 - 2018

- · Founded web-based service that supports students with learning difficulties by providing them with class notes and saves an average of 15 hours per week of manual labour.
- Implemented secure authentication from scratch using custom JSON Web Tokens.
- · Crafted mobile-friendly user interface using responsive CSS.
- Received \$3,000 in entrepreneurship prizes and won the regional level of the OSEntreprendre competition.

EDUCATION

Bachelor's of **Software Engineering**

90.67% Cumulative Average Dean's Honours List Recipient (2x)

University of Waterloo

2018 - Present