





# Lucas Harvey

Software Engineering at the University of Waterloo

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## SKILLS

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

## WORK EXPERIENCE

- IntelliSports**  
intellisports.ca  
Summer 2019  
**Full Stack Developer Intern**  
*Objective-C, XCode, PHP, MySQL*
  - Responsible for the end-to-end development of a leveling up gamification feature to incentivize long-term user engagement.
  - Refactored the 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 bidirectional pagination for dynamic data.
- Nexchange**  
nexchange.ca  
2017 - 2018  
**Lead Developer and Founder**  
*JavaScript, HTML, CSS, PHP, MySQL*
  - Founded a 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 using **JSON Web Tokens** from scratch.
  - Created a mobile-friendly user interface using dynamic **CSS**.
  - Received \$3,000 in entrepreneurship prizes.

## PROJECTS

- PartyFinder**  
partyfinder.ca  
Summer 2019  
*React Native, Expo*
  - Created a crowdsourced mobile app to help students find events happening near them with live ratings and collected over 450 personal emails pre-launch.
- VisionLock**  
Fall 2018  
*Python, OpenCV,*
  - Developed a home security system capable of performing **facial recognition**, unlocking a door and greeting the resident with text to speech conversion.
- GraphGEN**  
Spring 2017  
*JavaScript, HTML, CSS*
  - 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

- Bachelor's of Software Engineering**  
2018 - Present  
**University of Waterloo**  
90.67% Cumulative Average  
Dean's Honours List Recipient (2x)
- Diploma of College Studies**  
2016 - 2018  
**John Abbott College**  
R Score of 37.5 and Dean's List Recipient (Top 0.5% of school)  
Valedictorian