

# Alex Hyde

1B Software Engineering / Competitive Hockey Player

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## Skills

### Languages:

JavaScript, Python, C, Java, HTML, CSS, XML

### Tools:

Android, Git (version control), VS Code

## Education

### Software Engineering (BSE)

Apr. 2025

University of Waterloo

- **97.1%** average (**4.0 GPA**)
- Software Engineering Entrance Scholarship
- President's Scholarship of Distinction

## Technical Experience

### Lead Mobile Developer

Nov. 2019 - July 2020

Brampton Entrepreneur Center

- Worked on a mobile development team to create an app that encourages walking to local businesses, rather than driving to or ordering from big chains, through rewarding users with coupons to get discounts on their purchases.
- Developed multiple prototypes of the app in **Android Studio** using **Java** and **XML**. Implemented **Google Maps API** to track user location and periodically calculate the user's speed to ensure that they are not driving.
- Received the commercialization award and achieved **2nd** place at Spark Hacks 2019 (**40+** teams).

## Projects

### Galacticolour JavaScript, HTML

Dec. 2020 - Jan. 2021

- A two dimensional level-based game built in a 3 person team and hosted entirely on the web.
- Created a custom game engine upon which the game is built with collision detection, animations, and parent classes.
- Designed the player sprites/textures, as well as the main menu screen and the level select screen.



### Big Brain Time Python

Nov. 2019 - Jan. 2020

- A schedule manager with a heavy focus on **UI/UX**. Serves to easily keep track of tasks, assignments, and events.
- Created and implemented a custom module to easily position elements with full responsiveness to screen size changes.



### Battleship c

Sep. 2020 - Dec. 2020

- Implementation of the classic game Battleship using an **Arduino**, built in a 5 person team.
- Developed multiple AI difficulties to place ships randomly and predict which tiles to attack using predetermined patterns.



### Aurora Parks and Trails Java, XML

Sep. 2019

- An Android app that facilitates finding local parks and trails, and connects users to upcoming events.
- Implemented **Google Maps API** using **Android Studio** to display locations and provide directions to destinations.
- Won **1st** place at the Aurora Hackathon in 2019.



## Experience

### Soccer Referee

May 2016 - Present

York Region Soccer League

- Managed over 200 soccer games while working in a team with two other referees.
- Communicated clearly and professionally with referees, parents, players, and coaches.

### Customer Service

Aug 2019 - Apr 2020

McDonald's

- Provided exceptional customer service and efficiently communicated with my colleagues and customers.
- Maintained an excellent quality of work in a very fast paced environment.