Alex Hyde

1B Software Engineering / Competitive Hockey Player

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Skills

Languages:
- JavaScript
- Python
- C
- Java
- HTML
- CSS
- XML

Tools:
- Android
- VSCode
- Git

Contests/Awards

Spark Hackathon 2019
- 2nd overall (40+ teams)
- Commercialization award

Aurora hackathon 2019/20
- 1st and 2nd overall

Math@Mac 2019
- Top 20 (692 teams)

Education

Software Engineering (BSE)
University of Waterloo 2025
- **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, and rewards users with coupons to get discounts on their purchases.
- Developed two 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 at Spark Hacks 2019.

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.
- Implemented a calendar to keep track of upcoming tasks/events, and included study sessions to help work on tasks.

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.

Experience

Soccer Referee
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.