

# JUSTIN WANG

## STUDENT

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## SKILLS

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**PROGRAMMING:** Java, Python, HTML5, CSS3, Javascript, React, C#, Kotlin, Swift

**DATABASES/LIBRARIES:** Firebase, React

**TOOLS:** Git, Github, Heroku, Android Studio, Xcode, Figma, Unity, Jira, Confluence

## SUMMARY

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Third-year computer science student studying at the University of Ottawa, with internship experience and a multitude of independently created projects. Proficient in iOS and Android, front-end, back-end and web development.

## EMPLOYMENT

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**Royal Bank of Canada, Android Developer Intern**, Toronto, Ontario

May 2023 - Aug. 2023

- Worked in **front-end development** and **API integration development** on RBC Mobile Banking and Direct Investment, 2 components of the RBC Mobile app, with thousands of users daily.
- Added a search bar within the Interac e-transfer module of the RBC Banking app, enhancing user accessibility for rapid contact search.
- Developed a feature with **REST API integration**, enabling users to reorganize watchlists within the direct investment platform
- Created proof of concepts for the app which incorporates **machine learning** and **dynamic data visualization**
- Used **Java** and **Kotlin** on **Android Studio** with extensive use of **Github**.
- Strong understanding of **Agile** and **Scrum** practices, with experience in **Jira** and **Confluence**.

**Royal Bank of Canada, iOS Developer Intern**, Toronto, Ontario

May 2022 - Aug. 2022

- Worked on RBC Launch and RBC Rewards, apps with thousands of users daily which allows them to save and spend money easier.
- Worked on front-end development using **Swift** and **Javascript** on XCode following **Agile** and **Scrum practices** with extensive use of **Github**.
- Developed bug fixes to display UI components correctly such as images, titles and user information.
- Created new UI screens for welcoming users and shopping in-app.
- Improved connection between front-end and back-end so APIs would send user information correctly.
- Added accessibility features for visually impaired users that read text and components on the app aloud.

## PROJECTS

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**Oilgarchy: Unity Game (Hack the Hill Game Jam Winner)**

- Designed a Unity game, inspired by the popular 'cookie clicker' concept, featuring in-game decision-making, automated clicker mechanics, and a comprehensive **Graphical User Interface (GUI)**.
- Used **C#** and **Unity** to create the 2D game.
- Winner of the first annual Hack the Hill Game Jam category against 14 other teams, with a \$700 prize.

**Scoop Scouters: Android Project (Deer Hacks 2023)**

- Worked on a community-driven, dynamically changing app used to track ice cream truck locations, with photos and coordinates.
- Front-end built with **Java** on **Android Studio** with **Maps SDK**, to incorporate Google Maps and to visualize locations on the app.
- Verified photos taken by users using **Open CV**.
- Photos and coordinates stored on **Firebase's Real-time Database** and **Google Cloud**.

**Algorithm Visualizer**

- Created a visualizer for pathfinding algorithms, **A\*** and **Dijkstra's**, that can visualize pathfinding from one node to another.
- Built the program with **Python** and used the **Tkinter** GUI library for pop-ups and accepting user inputs for where to place the start and end nodes.
- Used **Pygame** library to create UI that allows users to place nodes on a 50x50 grid and draw barriers to change the algorithm's path.

## EDUCATION

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**University Of Ottawa**

Sept. 2021 - Current

Bachelors of Computer Science 2025

Scholarships: Admission scholarship, Dean's Honour List 2022.

CGPA: 9.00