

# BENJAMIN YEE HWANG

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## EDUCATION

**University of British Columbia, Sauder School of Business**  
BCom (Combined Major in Business & Computer Science)

*Expected graduation: May 2020*

- Teaching Assistant (CPSC304 **Relational Databases**)
- Dean's Honour Roll

## TECHNICAL SKILLS

**Languages:** Python, C#, Java, JavaScript, C, C++, SQL, PHP

**Tools and Frameworks:** Unity Game Engine, Unix Terminal, Jira, Git

## WORK EXPERIENCE

**Software Developer Intern, Creative Labs**

*Sep 2019 – Dec 2019*

- Wrote Python program to simulate the game Puzzle Hockey to collect data on pinch points and user experiences
- Created simulation mode in Puzzle Hockey for debug mode to test flow of integrating new game features
- Implemented Popup Alert feature and Player vs Player feature in Puzzle Hockey in C# utilizing Prismic and Unity
- Found and fixed ~80% of Player vs Player bugs in Puzzle Hockey to ensure feature shipped safely and on time

**Agile Developer Intern, SAP**

*Jan 2019 – Aug 2019*

- Developed features for the Analytics Cloud product in JavaScript based on SAP UI5 development toolkit
- Spearheaded integration of Selenium E2E automation framework decreasing team feature regressions by ~50%
- Resolved bugs using chrome debugger and through analysis of existing code to deliver safe and maintainable solutions
- Led the Intern Committee to deliver events improving the Communications, Career Dev and Social aspects for SAP Employees

**Research Assistant, UBC**

*Sep 2018 – Dec 2018*

- Aided Professor Arslan Aziz researching the validity and integrity of Amazon product reviews
- Developed Python scripts:
  - to web scrape Amazon reviews on user inputted products for mass data collection
  - to integrate a classification ML model (RandomForest) to predict the integrity of an Amazon review

## TECHNICAL PROJECTS

**iris (Python, 4-person hackathon project)**

*Feb 2019*

- Led my team in designing a voice assistant (Amazon Alexa) for the visually impaired to identify which clothes to wear
- Helped with architecting hack with double layered APIs to temporarily bring localhost into the cloud (ngrok)
- Created Python script for image processing fn. predicting color of clothing (ML classification K-nearest neighbors)

**Twitter Analytics (Python, Personal)**

*Apr 2018*

- Utilizes Twitter API to collect inputted number of real-time tweets relevant to inputted user keyword
- Performs text-mining data analytics on tweets; most common words/hashtags, and most influential tweets
- Executes sentiment analysis on individual tweets and creates a histogram to display subjectivity/polarity

**Uber Database Application (PHP & SQL, 4-person academic project)**

*Mar 2018*

- Designed graphical user interface of web application using PHP and created database schema with MySQL relational database
- Created tables, populated relational database instances, and created numerous queries using SQL

**UBC Courses Info Query (JavaScript, 2-person academic project)**

*Dec 2017*

- Developed an API that validates queries, then displays results of relevant query information from UBC database
- Implemented RESTful endpoints allowing project to be used by remote clients as a web-based service
- Optimized through use of efficient data structures coupled with sorting and search algorithms

## EXTRA-CIRRICULARS

**Student Athlete, UBC Varsity Badminton**

*Sep 2015 – Feb 2018*

- Balanced 12+ hour weekly training sessions and competition in addition to academics and personal development
- Achieved multiple podium finishes in various provincial level college tournaments

**VP External, Sauder Sports**

*Apr 2016 – Apr 2017*

- Established external connections and created CR Sponsorship Package alongside VP Social Media