

Benjamin Chang

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Work Experience

Visier

Vancouver, Canada

Software Developer Intern (Studio)

Sep 2021 – Apr 2022

- Working on the Studio team, helping build the new platform for Visier's analytics product and software
- Created a new feature allowing tenants to customize their homepages, matching user groups to targeted analytics for easier visualization and personalization
- Working on a new feature for easy and convenient reporting and fixing of incorrect company or employee data, the workflow is dubbed "Flag&Fix", user "flags" issue, which gets reported to an admin who "fixes" the problem

University of British Columbia

Vancouver, Canada

Prairie-Learn Developer

Apr 2021 - Present

- Full stack development position for UBC's web-based assessment platform PrairieLearn used in the CS department
- Designed and implemented 100+ exam questions (using Python/Java/C++ backend and HTML frontend)
- Made sure to incorporate randomized question data generation and customized autograders to minimize cheating, resulting in our course (CPSC 203) reporting some of the lowest numbers of academic dishonesty in the department
- Created new lab content for the course as well as auto-graders for the programming assignments eliminating the need for teaching staff to spend time on grading and dedicating more time for office hours and content preparation

Back-End Developer

Sep 2020 – Apr 2021

- Using Canvas API, helped UBC course instructors transition their course resources online for remote learning
- Worked on md2canvas: a package to create Canvas quizzes in Markdown format and directly exporting them to the course Canvas website bypassing any manual setup, this helped instructors reduce time spent on quiz setup by ~70%
- To improve workflow, added a script to extract iClicker questions from lecture slides into a MD quiz for md2canvas

Projects

League Champ Predictor

Dec 2021

- Built and trained a classification model to predict a League of Legends champion with highest chance of victory
- Used RiotAPI to fetch match history for specified player and built/tuned scikitlearn's Decision Tree classifier, using Pandas dataframes to format and preprocess the data before feeding into model
- Built a GUI so application can be run alongside game client and team/enemy champions can be entered easily

Gym 18 ([link](#))

June 2021

- Designed and implemented a database system to model the inner workings of a fitness centre like a gym
- Using Java + Oracle, we created an application providing access to a custom database with multiple functions through the GUI: registering accounts, booking training sessions, creating/following diet plans, etc.

Perfect Pitch

Jul – Aug 2020

- An audio-based chord guessing game created for my music students to better adjust to COVID remote learning
- Currently published in the Google Play Store and used by my students for their weekly practice and ear training
- Since deployment, students' ear tests have improved greatly: ~50% increase in perfect scores in annual music exams

Skills

Languages

Python, Java, C++, Scala, R, TypeScript/JavaScript, Kotlin

Tools/Frameworks

Angular, RxJS, SQL, Git, Excel

Packages/Libraries

Pandas, Numpy, scikit-learn, JUnit, SwingUI

Education

University of British Columbia

Vancouver, Canada

BCS in Computer Science

2020 – Present

- Anticipated Graduation: April 2023
- Relevant Courses: Data Structures, Algorithms, Software Engineering, Machine Learning, Data Science, Databases

BSc in Life Sciences & Chemistry

2015 – 2020