

William Chu

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Education

University of Waterloo / BAsC in Mechanical Engineering

Relevant Courses: Data Structures & Algorithms (Java)

Expected Grad: **Aug 2022**

HarvardX

Relevant Courses: CS50x: Introduction to Computer Science, Web Programming with Python and JavaScript

Certificate: Sept 2020

Experience

Software Engineer Intern @ Vidyard

Waterloo, ON (remote) / May 2021– *Present* (Dec 2021)

- Worked on the video hosting team, responsible for product strategy surrounding video uploading, editing and playback targeting Enterprise tier customers
- Architected and developed a new video editing feature using **Vue/Vuex, Ruby on Rails and MySQL** to cut, trim and encode user uploaded videos, surpassing quarterly OKRs by increasing daily trim usage by **50%** and weekly video creation by **30%**
- Refactored video encoding microservice, optimizing for the addition of new multi-segment videos and enabling scalability for future video stitching feature
- Implemented video trim **Active Record model** and **REST API** to transfer and store encoded metadata for view rendering
- Initiated a new sub-team that developed a notification management system, allowing users to personalize video notification settings and reducing notification-related customer complaints by **90%**
- Supported the implementation of automated QA testing through the addition of **Jest, RSpec** and **Cypress** end to end testing to existing and newly developed software

Mechanical Engineer Intern @ Tinymile.ai

Toronto, ON / Jan 2020–Apr 2020

- Seed round start-up aiming to bring autonomous delivery robots to the streets of downtown Toronto, working on a 2-person team reporting directly to the CEO
- Garnered a projected **\$1.5mil** in seed round funding by collaborating with multiple multidisciplinary teams to pioneer the design and manufacturing of an autonomous food delivery robot
- Conducted consumer research and behavioural analysis to aid in integrating the idea of a food delivery robot into society, resulting in an **80%** increase in customer compliance and first successful delivery milestone

Projects

NBA Fantasy Research

- Reduced draft selection research times by **50%** by developing a **React** and **Flask** web application allowing users to query multiple player's advanced statistics; leading to more coherent selections and improved overall teams
- Utilized the **BeautifulSoup, Pandas** and NBA **web-scraping** libraries to create a data pipeline that processed user queries and aggregated relevant statistics

Technical Skills

Languages:

Python • JavaScript • Ruby • Java • SQL • HTML/CSS

Frameworks & Libraries:

Vue/Vuex • React • Bootstrap • Flask • Ruby on Rails • Pandas • BeautifulSoup

Data Storage:

MySQL • Active Record • SQLite3

Testing:

Jest • RSpec • Cypress

DevOps:

Docker • Git • Heroku • Ngrok

Interests

Volleyball, NBA Basketball, conversing with GIFs, Marvel Movies/Shows