

# Achinth Bharadwaj

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## EDUCATION

### University of British Columbia

Expected: Apr 2023 | Vancouver, Canada

B.S. Combined Major in Computer Science and Statistics, Co-op

• Coursework:

- **Computer Science:** Intro to Systems, OOP, Intermediate Algorithm Design, Relational Databases, Intro to AI
  - **Statistics and Data Science:** Intro to Data Science, Probability, Inference for DS, Statistical Modelling
- Associations: UBC ultimate frisbee intramural champions, UBC Science Co-op candidate

## EXPERIENCE

### The University of British Columbia

Oct 2020 – present | Vancouver, Canada

Undergraduate Student Researcher

- Conducting **exploratory data analysis** & assessment for **nonlinear modelling** of seismic resilience of infrastructure

### The Boeing Company

Jan 2020 – Aug 2020 | Vancouver, Canada

Software Engineering Intern, Digital Solutions and Analytics

- **Revitalized user experience** and **load time by 30%** for Boeing engineers by leading the redesign of a legacy operations dashboard using Vue and Node.JS
- Implemented a quality framework using **Pytest**, **Flask** and **Redis Queues** for a containerized web app to detect functional and database vulnerabilities in production, leveraging the **Tableau Server Client**
- Created and analyzed a proof-of-concept for a change point detection algorithm using **R-Prophet**, **R-changepoint** and **Tidyverse** on **Jupyter Notebooks** to aid in detecting changes in mean time series data

### UBC Launch Pad

Sep 2019 – present | Vancouver, Canada

Software Developer

- UBC's resident student-run software engineering **design team**
- Develop software products (including **Footprint** below) with 4 team developers across 4-8 month **agile sprints**
- Refined guidelines for team **project management**, **conducted UX research**, and aided in recruitment of candidates

## PROJECTS

### Yogini

Oct 2020

- Developed a **serverless web app** with **React** and **Next.js** to aid in online yoga instruction during the pandemic
- Implemented an **AR canvas**, a **pose estimator model** with **Tensorflow** and an algorithm to track **limb angles**

### Wolfram Award: TypeMeNot2

Jan 2020

- **Top 15 programming projects at UBC's largest hackathon with over 300 participants**
- a real-time **input moderator** built as a Chrome extension, made with Node.JS and the Perspective API for **text analysis**

### Footprint

Oct 2019 – Mar 2020

- Developed a **cross-platform** mobile application in **JavaScript** which aids users in tracking their ecological footprint
- Implemented data visualization and analytics pages using **React Native** and **Expo**, pulling from a native **Flask** API

### Predicting cervical cancer in patients from lifestyle choices

Oct 2019 – Dec 2019

- Analyzed a UCI Machine Learning cervical cancer dataset using **R** and **tidyverse**
- Tuned a **k-nearest neighbours** machine learning model to predict prevalence with an **86% accuracy**

## SKILLS

**Languages:** Python, Java, Javascript, R, Bash, C/C++, HTML/CSS

**Tools and Frameworks:** Vue, React, React Native, Git/Version Control, Pandas, Tidyverse, Tensorflow, JIRA, Docker, Node.JS, Flask, PostgreSQL, Go (currently learning), MongoDB (currently learning)

## AWARDS

### Youth Good Neighbour Award

May 2018

Association of Neighbourhood Houses of British Columbia

- Awarded with the Burnaby Neighbourhood House for creating a youth leadership and empowerment program for elementary school students