

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 with **OpenSeesPy**, **NumPy** and **Matplotlib**

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

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 **Prophet**, **R-changepoint** and **Tidiverse** on **Jupyter Notebooks** to aid in detecting changes in mean time series data

PROJECTS

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**

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**

SKILLS

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

Tools and Frameworks: Vue, React, React Native, Git/Version Control, Pandas, Numpy, Tidiverse, 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