

# Achinth Bharadwaj

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## EDUCATION

### University of British Columbia

Sep 2018 – Apr 2023 | Vancouver, Canada

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

- **Computer Science courses:** Object-oriented Construction, Data Structures and Algorithms, Introduction to Computer Systems, Introduction to Databases, Introduction to Artificial Intelligence
- **Statistics and Data Science courses:** Introduction to Data Science, Introduction to Probability, Statistical Inference for Data Science, Statistical Data Analysis
- **Associations:** UBC ultimate intramural champions, UBC Science Co-op

### Stanford University

Jun 2020 – Aug 2020 | Coursera

Machine Learning

## EXPERIENCE

### 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 old and introduced new guidelines for team **project management** and aided in recruitment of candidates

### The Boeing Company

Jan 2020 – Aug 2020 | Vancouver, Canada

Software Engineering Intern

- Revitalized user experience and load time by 30% by leading the overhaul and redesign of a legacy operations dashboard web app using **Vue.js** and **Node.js** to serve Boeing factory engineers
- 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 **Tidverse** on **Jupyter Notebooks** to aid in detecting changes in mean time series data
- Interfaced with development and quality teams to define requirements and documentation for current projects

## 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

### TypeMeNot2

Jan 2020

- Utilized Google's Perspective API in order to determine input text toxicity for automatic moderation
- Built a Google Chrome extension using **JavaScript** and **Node.JS**

### Predicting cervical cancer in patients from lifestyle choices

Nov 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**

### Desktop Task Manager

Mar 2019 – Apr 2019

- Constructed a personal **Java** task manager with tags, deadlines and priority levels
- Parsed system input into **JSON** for data persistence and built a user interface with **FXML**

## SKILLS

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

**Frameworks and other technologies:** Vue, React, React Native, Git & Github, Flask, Jupyter, OpenCV, Pandas, Scikit-learn, Tidverse, Node.js, PostgreSQL, Unix, JIRA, Docker, Redis, Firebase, Tensorflow

## AWARDS

### Wolfram Award

Jan 2020

nwHacks 2020

- Top 15 programming projects at UBC's largest hackathon with over 300 participants
- Won for the project "TypeMeNot2" above

### 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