

# Achinth Bharadwaj

✉ achinth@alumni.ubc.ca ☎ +1 (778) 319-8140 🌐 achinth.ca 🔄 achinth-b in achinthb

## EDUCATION

### University of British Columbia

Sep 2018 – Apr 2023 (exp)

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

Vancouver, Canada

- **Computer Science courses:** Object-oriented Construction, Data Structures and Algorithms, Introduction to Computer Systems, Introduction to Database Systems, 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 Launch Pad, UBC ultimate intramural champions, UBC Science Co-op

## EXPERIENCE

### The Boeing Company

Jan 2020 – Aug 2020 | Vancouver, Canada

Software Engineering Intern

- Improved 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
- Created an authentication framework using **Pytest** and **Flask** for a containerized data science web app to detect functional and database vulnerabilities in production
- Reduce technical debt by standardizing **CI/CD pipelines**, installation dependencies, and data pipelines for new data science web projects on Azure
- Interfaced with development and quality teams to define requirements and documentation for current projects

### UBC Launch Pad

Sep 2019 – present | Vancouver, Canada

Software Developer

- UBC's resident student-run software engineering design team
- Develop software products with 4 team project developers to solve real-life problems
- Built a carbon footprint app using Javascript, Python and React Native in an agile environment

## PROJECTS

### Footprint

Oct 2019 – Mar 2020

- Developed a mobile JavaScript application that guides users of their diet's impacts on their ecological footprint
- Implemented data visualization and analytics pages using a native **Flask** API using **React Native** and **Expo**

### 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 **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**

### 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**

## SKILLS

### Languages

Python  
Java  
JavaScript/HTML/CSS  
R  
C++

### Frameworks

Vue  
React Native  
Flask  
OpenCV  
Tidyverse

### Technologies

Git  
Node.js  
Unix  
JIRA  
Docker

## AWARDS

### Wolfram Award

Jan 2020

nwHacks 2020

- Top 15 programming projects at UBC's largest hackathon with over 300 participants

### 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