Achinth Bharadwaj

achinth@student.ubc.ca +1 (778) 319-8140 achinth.ca achinth-b achinthb

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 **Tidyverse** 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, Tidyverse, 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