Achinth Bharadwaj

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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 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 Launch Pad, UBC ultimate intramural champions, UBC Science Co-op

Stanford University   Jun 2020 – Aug 2020 | Coursera
Machine Learning

EXPERIENCE

The Boeing Company   Jan 2020 – present | 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

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**

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**

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, HTML/CSS, Bash
Frameworks: 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