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
- Created an authentication framework using **Pytest, Flask** and **Redis** for a containerized data science web app to detect functional and database vulnerabilities in production
- Compiled data visualizations with **Tidyverse** and analyzed methods to assist data scientists in change-point detection on 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**

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, R, HTML/CSS, C++
Frameworks: Git & Github, Vue, React Native, Flask, OpenCV, Tidyverse, Node.js, PostgreSQL, Unix, JIRA, Docker, Redis

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