Achinth Bharadwaj

✉ achinth.bharadwaj@gmail.com   📞 +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
- **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	Frameworks	Technologies
Python	*Vue*	*Git*
Java	*React Native*	*Node.js*
JavaScript/HTML/CSS	*Flask*	*Unix*
R	*OpenCV*	*JIRA*
C++	*Tidyverse*	*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