

# Achinth Bharadwaj

## Experience

## Projects

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## University of British Columbia

Expected Grad: May 2023  
Major GPA: 3.5 / 4.0

### Bachelor of Science, Combined Major in Computer Science and Statistics - Coop

- Dean's Honour List
- Relevant Courses:
  - **CS:** Software Engineering, Algorithm Design, Databases, Human Computer Interaction
  - **Statistics & Data Science:** Machine Learning, Probability, Regression, Statistical Inference

## Software Engineer Intern

Covalent

May 2021 - Aug 2021  
Remote, Canada

Architecting [defistats.io](#) - a granulated analytics product which indexes and visualizes decentralized finance information from **six** blockchains in real time

Drove Covalent's mission of explosive growth by accomodating **3x more** customer API calls through optimizing in-memory caching structures to avoid local failure

Took ownership of **three endpoints** on Covalent's API product to actualize NFT circulation, smart contract events and transaction metadata for customers

*Technologies:* Java, Elixir, Grafana, Web3, JavaScript, React, Solidity, Next.js, PostgreSQL, Solidity, Docker

## Undergrad Research Assistant

UBC

09/2019-present

Parsed and cleaned seismic data of Vancouver structures from multiple data sources

Tuned and improved a logistic regression model by 10% by validating collected data and prepared it for ML use

Created visualizations to provide insights about at-risk infrastructures

*Technologies:* Python, Matplotlib, Seaborn, Pandas

## Software Engineer Intern

The Boeing Company

Jan 2020 - Aug 2020  
Vancouver, Canada

Optimized data load time by **30%** by upgrading backend architecture from a SOAP backend to a RESTful microservice to proprietary Boeing flight & revision data

Led the tech-stack and feature upgrade for the user interface by implementing dynamic preferences, visualizations and filtration using MVC principles

Implemented & unit tested features and refactored code for authentication, user permissions and database integrity for a Dockerized Flask app, increasing reliance by **75%**

Automated workflows, managed daily testing and configured continuous deployment on Azure cloud pipelines for data science projects

Leveraged the Tableau Server Client to improve dashboard workflows and group generation

*Technologies:* Node.js, JavaScript, Express, Vue, Bootstrap, PostgreSQL, Python, Redis, SQLAlchemy, Pytest, Apache Airflow, Tableau, Docker, SonarQube

## ASLingo

[github](#)  
[learnasl1.app](#)

Building a cross-platform web application that teaches the principles of American Sign Language. Aiming to launch by August 2021.

Created an ML model which achieved **~82%** classification on open-sourced hand and finger image data.

*Technologies:* FastAPI, OpenCV, Python, Flutter, Dart, Tensorflow, Keras, Mediapipe

## typeMeNot2

[github](#)  
[devpost](#)

Built a Chrome extension app to enforce real-time input content moderation on 15 websites to proactively prevent harmful language being used on public platforms.

Awarded: Wolfram Award for Top 15 Projects at UBC's nwHacks 2020.

*Technologies:* Node.js, JavaScript, Perspective API, Python

## UBC Launch Pad

[github](#)

Co-developed 'Footprint' - a cross-platform mobile app to aid users in tracking their ecological footprint through food consumption and daily activities

Refined project management, conducted UX research and managed team recruitment

*Technologies:* React, React Native, JavaScript, Node.js, Expo, Flask, Python, MongoDB

## yo • gini

[github](#)  
[yogini.app](#)

Developed a serverless web app to aid in online ML-based yoga instruction for wellness during the COVID-19 pandemic with AR-based limb tracking.

*Technologies:* Tensorflow.js, JavaScript, Go, React, Next.js, Vercel