

Achinth Bharadwaj

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EDUCATION

The University of British Columbia

B.S. Combined Major in Computer Science and Statistics, Co-op

Expected Graduation: April 2023

Vancouver, Canada

- **Major GPA: 3.5/4.0, Dean's Honour List**
- **Coursework:**
 - **Computer Science:** Software Engineering (Full-Stack), Algorithm Design, Databases, Artificial Intelligence
 - **Statistics and Data Science:** Probability, Inference for Data Science, Regression, Machine Learning

SKILLS

Languages: Python, JavaScript, Java, TypeScript, SQL, HTML/CSS, C/C++

Technologies: Git/GitHub, React, Vue, PostgreSQL, REST, Docker, Pytorch, Tensorflow, Node.JS, Flask, AWS, Pandas

EXPERIENCE

Covalent

May 2021 – August 2021

Software Engineer Intern

Vancouver, Canada

- **Drove** Covalent's mission of **explosive DeFi growth by accommodating three times more user API calls** through optimizing in-memory cache managers to avoid single points of failure
- **Took ownership of the functionality** of three API endpoints to actualize NFT, smart contract & transaction metadata using Java and Elixir from a backend PostgreSQL server
- Resolved **15 hours of technical debt in two weeks** by refactoring cache and cryptocurrency pricing services

University of British Columbia

October 2020 – February 2021

Undergraduate Research Assistant

Vancouver, Canada

- **Parsed and cleaned** seismic data of Vancouver structures from data warehouses by writing Python scripts
- **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** using **Matplotlib, Pandas and Seaborn**

The Boeing Company

January 2020 – August 2020

Software Engineering Intern, Digital Solutions and Analytics

Vancouver, Canada

- **Optimized data load time by 30%** by upgrading the software architecture from a PHP/Apache SOAP backend to a RESTful Node.JS server
- **Led** the feature, tech-stack and UI **upgrade by implementing dynamic tables, visualizations and user preferences** for Boeing engineers with Vue and Bootstrap using MVC principles
- **Implemented & unit tested new features and refactored code** for authentication, user permissions, database integrity for a Dockerized Flask app using Redis, SQLAlchemy, Apache Airflow and Pytest
- Leveraged the **Tableau Server API** to automate user group generation and dashboard workflows
- **Automated workflows**, managed daily testing and **configured continuous deployment** on Azure cloud pipelines with YAML scripts for data science projects

COMMUNITY PROJECTS

STRIVE Business and Engineering

March 2021 – Present

Machine Learning Engineer

Remote - Vancouver, Canada

- Working with 4 engineers to create a recycling sorting system using YOLOv3 for Encorp Pacific (Return-It Depots)

UBC Launch Pad

September 2019 – January 2021

Software Developer

Vancouver, Canada

- **Co-developed 'Footprint', a cross-platform mobile app** to aid users in tracking their ecological footprint
- Implemented data visualization and analytics pages using React Native and Expo, pulling from a Flask API
- Refined project management guidelines, conducted UX research and managed recruitment for the design team

PROJECTS

UBC Course Insight Generator

January 2021 – April 2021

- **Built and thoroughly unit tested** multiple **REST** endpoints and querying features using a TypeScript/Node.JS backend
- **Created a parser** for JSONified extended Backus-Naur form queries to optimize backend logic

Wolfram Award: TypeMeNot2

January 2020

- **Top 15 programming projects at UBC's largest hackathon** with over 400 participants
- a real-time input moderator built as a Chrome extension with Node.JS and the Perspective API for text analysis