Achinth Bharadwaj

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EDUCATION

The University of British Columbia ↗   Graduation: Apr 2023 | Vancouver, Canada
B.S. Combined Major in Computer Science and Statistics, Co-op
- **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

EXPERIENCE

Covalent ↗   May 2021 – present | Vancouver, Canada
Software Engineer Intern
Covalent is a leading DeFi startup building an API for blockchain assets backed by Binance, Coinbase and Hashed.
- Implementing multiple API endpoints to query smart contract & transaction data using Java and Elixir from a backend PostgreSQL server
- Analyzing protocols such as Sushiswap and Maker by creating dashboards for analytics and to bolster product growth

University of British Columbia   Oct 2020 – Feb 2021 | Vancouver, Canada
Undergraduate Research Assistant
- **Wrote Python scripts** to parse, transform and clean seismic information of old Vancouver structures from multiple data warehouses
- **Validated the collected data** and prepared it for use in machine learning modelling
- **Created visualizations** to provide insights about **at-risk infrastructures** with characteristics and statistics of buildings using **Matplotlib, Pandas and Seaborn**
- Tuned a **logistic regression model** using **Tensorflow** to estimate the standard of seismic hazard

The Boeing Company ↗   Jan 2020 – Aug 2020 | Vancouver, Canada
Software Engineering Intern, Digital Solutions and Analytics
- **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 frontend 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
- **Wrote configuration & migration YAML scripts** to automate workflows, manage automated testing and continuous deployment on Azure cloud pipelines for data science projects

INVOLVEMENT

UBC Launch Pad   Sep 2019 – Jan 2021 | Vancouver, Canada
Software Developer
- **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

Wolfram Award: TypeMeNot2   Jan 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

UBC Course Insight Generator   Jan 2021 – Apr 2021
- **Built and thoroughly unit tested** multiple **REST** endpoints and querying features using a TypeScript and a Node.JS backend
- **Created a parser** for JSONified extended Backus-Naur form queries to optimize backend logic

Yogini   Oct 2020
- **Developed a serverless web app with React and Next.js** to aid in online yoga instruction during the pandemic
- Engineered an AR canvas, a pose estimator model with Tensorflow and an algorithm to track limb angles

SKILLS

Languages: Python, JavaScript, Java, TypeScript, SQL, HTML/CSS, C/C++
Technologies: Git/GitHub, React, Vue, PostgreSQL, REST, Docker, Node.JS, Flask, AWS, JIRA, GitHub Actions