

Veer Bhatia

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EDUCATION

University of British Columbia

Expected: May 2024

Bachelor of Science in Computer Science and Mathematics

Vancouver, BC

- Relevant Coursework: Software Engineering & Design Lab, Software Construction, Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Embedded Systems, Discrete Math, Software Architecture

TECHNICAL SKILLS

Languages: Go, Java, Python, C, C++, JavaScript, TypeScript, SQL, C#, HTML/CSS, PHP, Rust

Frameworks/Libraries: React, NodeJS, Express, Flask, OpenCV, PyTorch, Firebase, TensorFlow, Spring, Django

Developer Tools: AWS, Docker, MongoDB, Heroku, Azure, Kubernetes, PostgreSQL, Android Studio, JIRA, Git

EXPERIENCE

RBC Capital Markets

Jan. 2023 – April 2023

Incoming Software Engineer Intern - Electronic Trading Platform Team

New York, NY

Cognistx AI

Sep 2022 – Dec. 2022

Software Engineer Intern

Seattle, WA

- Developed API Endpoints within a Microservice Architecture with **Java**, Spring, and Jersey
- Automated significant amount of End-to-End and integration testing in development applications with Typescript, Selenium, and Webdriver reducing vulnerabilities and code smells by over **90%** across five microservices
- Reduced processing time by **~50%** by creating ETL pipeline using Python, **SQL** and Microsoft Azure services
- Deployed scalable models in production using Docker, AWS Elastic Beanstalk, OpenSearch and FastAPI
- Designed and developed Question Answering and Neural Search framework to automate manual assessments on large documents demonstrating potential savings of **\$1.5 million** for current client
- Built CI/CD pipelines with Groovy and Jenkins for triggering test automation in deployment process

Royal Bank of Canada

May 2022 – Aug. 2022

Software Engineer Intern

Toronto, ON

- **Carbon Advisor Team;** Led development on responsive full-stack React application and interactive dashboard to measure compute carbon impact of physical and virtual on-premise software for 10,000+ daily active users
- Developed a machine-learning recommendation engine using a microservice architecture containerized on OpenShift that provided app-specific carbon emissions reduction recommendations to clients in real time (< 1 sec)
- Engine developed in **Python** with **Flask** API with a data pipeline including vROps and PostgreSQL
- Designed RESTful and scalable API (**NodeJS**, **Express**, **MongoDB**) built for SaaS which passed extensive security review for use on RBC's Apigee external environment using OAuth 2.0 and integration with VMWare
- Filed a **provisional patent** application for the solution with expressed interest from senior executives and estimated **\$275,000** in cost savings and identified 9,806+ underutilized servers reducing over **40,651 grams/kWh** of CO2eq emissions per year

PROJECTS

Bucket Model | Python, Jupyter, Azure, Firebase, PostgreSQL, Git

Dec. 2021 – Mar. 2022

- Trained and developed a per-player three-pointer accuracy odds determining Machine Learning model based on 41.8k basketball statistics, using PyTorch and Azure Data Classification Tool
- Deployed a program to utilize model to estimate outcomes to every match and statistical over/under accuracy odds for the next year and estimated 11% greater odds of return when compared to in-game field goal odds

Sign Language Interpreter | Python, Azure, TensorFlow, Scikit-learn React

Jan. 2021 – May 2021

- Machine Learning Model trained using 3000+ images from Kaggle for interpreting sign language hand gestures
- Used Azure along with TensorFlow is used to train the RNN with 78% accuracy and interactive frontend using React, Redux, and Materials UI Library with integrated component-based unit testing
- Developed modern neural network architectures, image classification algorithms, and efficient data streaming