Veer Bhatia

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EDUCATION

University of British Columbia <div align="right">Aug. 2020 – May 2024</div>

Bachelor of Science in Computer Science and Mathematics <div align="right">*Vancouver, BC*</div>

- 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, 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 <div align="right">Sep. 2022 – Dec. 2022</div>

Incoming Software Engineer Intern - Electronic Trading Platform Team <div align="right">*New York, NY*</div>

Royal Bank of Canada <div align="right">May 2022 – Aug. 2022</div>

Software Engineer Intern <div align="right">*Toronto, ON*</div>

- **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 CO_2eq emissions per year

Cognistx AI <div align="right">Sep 2021 – Dec. 2021</div>

Software Engineer Intern <div align="right">*Seattle, WA*</div>

- Developed API Endpoints within a Microservice Architecture with **Java**, Spring, and Jersey
- Created Exception Mappers to increase security in API responses
- 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
- Improved resiliency by identifying and fixing bugs in integration tests
- Automated advanced data queries in **SQL** in AI-enabled applications reducing data processing times by ∼**15%**
- Built CI/CD pipelines with Groovy and Jenkins for triggering test automation in deployment process

PROJECTS

Bucket Model | *Python, Jupyter, Azure, Firebase, PostgreSQL, Git* <div align="right">Dec. 2021 – Mar. 2022</div>

- 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* <div align="right">Jan. 2021 – May 2021</div>

- 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
- Explored modern neural network architectures, image classification algorithms, and efficient data streaming

Orwell Project | *Swift, Objective-C, MongoDB, React Native, Android Studio* <div align="right">Sep. 2020 – Jan 2021</div>

- Collaborated with designers and engineers from different teams to revamp the mobile client to better visualize data from new NoSQL database schema
- Solved critical bug affecting 200+ clients through implementing the MVC design pattern on legacy Swift codebase to identify and fix vulnerability