# Shubh Bhalla

Major in Computer Science, 3rd Year, UBC

604-722-1352   shubhbhalla01@gmail.com

shubhbhalla.me                    linkedin.com/in/shubh-bhalla/                    github.com/shubhbhalla

## TECHNICAL SKILLS

**Programming Languages:** C, C++, C#, Java, TypeScript, CSS, HTML, Python
**Technologies**: Azure DevOps, Jira, Git, React, RDBMS, VS Code, MATLAB, .NET Core and Entity Framework
**Relevant Course Grades**: Software Construction – 94%, Differential Calculus – 95%, Integral Calculus – 98%, Calculus 3 – 92%, Probability – 95%

## PERSONAL PROJECTS

**Multicity-Weather Application** (https://weather-app-front-v2.herokuapp.com)                    June 2021
- Developed a multi city weather viewing application using Firebase Auth for authentication and Firebase Firestore for data persistence.
- Users can search any city's 24-hour weather graph and add them to their favourites.

Technologies Used: JavaScript, React, Firebase, Heroku, Node, Express

**Food Recognition Application** (https://shubh-food-recognition.herokuapp.com/)                    Jan 2021 – Feb 2021
- Users can submit an arbitrary image URL, which is sent to a machine learning model to identify which food items are present in the image URL.
- Displayed the food items present in the picture along with their probability and added the number of food items to the user's profile.
- Designed a custom server RESTful API using Express with various endpoints to facilitate different API calls and tested the functionality using Postman collaboration platform. Learned how to connect a PostgreSQL database to a Node server.
- Stored the data using PostgreSQL hosted on Heroku and hashed user passwords using Bcrypt before storing them in the database.

Technologies Used: React, Node, Express, PostgreSQL, Postman, Knex.js, Heroku

**Workout Logging Application** (https://github.com/shubhbhalla/Workout-storing-Application)                    Oct 2020 – Nov 2020
- Built a desktop application with Java to store the weightlifting records of the users so that they can easily look at their previous workouts.
- The user interface was made with Java Swing Library and the workout data was stored in JSON format on the local machine. The application was tested thoroughly using JUnit with 95% code coverage.

Technologies Used: Java, Swing, JSON, JUnit

## WORK EXPERIENCE

**Web Developer Co-op, *BGC Engineering Inc.***                    Sep 2021 – April 2022
- Working on the company's main enterprise geohazard management web application using a proprietary JavaScript framework and Esri ArcGIS.
- Learned in depth about TypeScript, React, SQL, C#, .NET and Entity Framework to develop new features for the software.
- Transferred to a new team after 2 months of starting my co-op, which consisted of only senior devs, tech leads, data scientists and GIS personnel, where I helped develop complex client specific requirements, such as the main layer control panel for the application.

**VP Logistics and Tech, *BizHacks***                    Sep 2021 – Present
- Head of Logistics and Tech at a student run organization with over 25 members, established 7 years ago.
- Organized a Prototype Hackathon sponsored by Apply digital, raising a revenue of $6.5k, where 90+ students registered.
- Organized a Microsoft led networking session for students with different employees, from Data Scientist to Garage Program Managers.

**Mobile Application Developer (Volunteer), *LivestockCity Inc.***                    July 2021 – Sep 2021
- Worked at a start-up to make a mobile application UI using React Native with Expo. The application was to be used for buying/selling houses.

**VP Volunteering, *Computer Science Student Society UBC***                    June 2021 – Present
- Helped organize different events for the CS students at UBC including headshot event, research night and various online social events.
- Organized and hosted Tech Industry Night where we were sponsored by various companies to help them meet CS students in UBC.

**Line Cook, *Tap and Barrel***                    June 2021 – Aug 2021
- Working at a fast-paced restaurant which seats more than 200 people, cooking different food items.

**Brand Ambassador, *Wize Prep***                    Feb 2021 – April 2021
- Connected Wize with friends, clubs, and student groups at UBC and helped to grow Wize's student reach by referring students all around the globe to their website.
- Presented information about the various pricing options in a manner that appealed to the students and guided them to choose whatever was most useful to them.

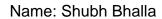**House Council, *UBC Housing Services***                    Sep 2019 – April 2020
- Member of the house council at UBC's first-year on-campus residency. Collaborated with clubs on campus to organize large-scale events for the residence community.
- Helped foster a sense of belonging among international students and maintained weekly/bi-weekly check-ins on their mental health.

## EDUCATION

**3rd Year Bachelor of Science, *Computer Science Major, University of British Columbia, Vancouver, Canada***                    Sep 2019 – Present
- Admitted into Dean's List and Science Scholar's list (students who have 90%+ average) in first year based on my academic performance.
- Received Dean of Science Scholarship and Trek Excellence Scholarship (given to top 10% in the university).

| Session | Degr/Catg | Year | Term | Course | # | Credits | Description | Grade | Standing |
|---------|-----------|------|------|--------|-----|---------|-------------|-------|----------|
| 2021W | DEGR | 3 | 2 | CPSC | 299 | 3 | WORK PLACMNT II | | |
| 2021W | DEGR | 3 | 1 | CPSC | 298 | | WORK PLACMNT I | | P |
| 2020W | DEGR | 2 | 2 | CPSC | 213 | 4 | INTRO COMP SYS | A | |
| 2020W | DEGR | 2 | 2 | CPSC | 221 | 4 | BASIC ALG&DATA | A- | |
| 2020W | DEGR | 2 | 2 | ECON | 102 | 3 | PRINCPL MACRECON | A+ | |
| 2020W | DEGR | 2 | 2 | STAT | 302 | 3 | INTR PROBABILITY | A+ | |
| 2020W | DEGR | 2 | 1 | CPSC | 210 | 4 | SFTWR CONSTRUCTN | A+ | |
| 2020W | DEGR | 2 | 1 | MATH | 200 | 3 | CALCULUS 3 | A+ | |
| 2020W | DEGR | 2 | 1 | MATH | 221 | 3 | MATRIX ALGEBRA | A | |
| 2020W | DEGR | 2 | 1 | STAT | 200 | 3 | ELEM STAT APPLIC | B+ | |
| 2020S | DEGR | 1 | 2 | WRDS | 150 | 3 | RSRCH&WRIT HUMAN | A- | |
| 2019W | DEGR | 1 | 2 | ATSC | 113 | 3 | APPL METEOROLOGY | A+ | |
| 2019W | DEGR | 1 | 2 | CPSC | 121 | 4 | MODEL COMPTN | A | |
| 2019W | DEGR | 1 | 2 | MATH | 101 | 3 | INT CALC AP PH S | A+ | |
| 2019W | DEGR | 1 | 2 | PHYS | 101 | 3 | ENERGY & WAVES | A+ | |
| 2019W | DEGR | 1 | 2 | SCIE | 113 | 3 | SCIE SEMINAR | B+ | |
| 2019W | DEGR | 1 | 1 | BIOL | 111 | 3 | INTR MODERN BIO | B+ | |
| 2019W | DEGR | 1 | 1 | CPSC | 110 | 4 | COMPTN PROGRMNG | A+ | |
| 2019W | DEGR | 1 | 1 | ECON | 101 | 3 | PRIN MICRO ECON | A+ | |
| 2019W | DEGR | 1 | 1 | MATH | 104 | 3 | DFF CALC AP C&SS | A+ | |