Shubh Bhalla

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EDUCATION

University of British Columbia — Sep 2019 – Apr 2024
Bachelor of Science, Computer Science — *Vancouver, BC*
- 2-time **Teaching Assistant** for a Software Construction course, teaching **Object-Oriented Programming** in **Java**. Conducted labs with **65+ students** and helped with lectures with over **250+ attendance**.
- Science Scholar's List (**90%+** average), Trek (**top 10%** in university) and Dean of Science Scholarship.

WORK EXPERIENCE

Backend SDE Intern — May 2022 – Aug 2022
Bio-Conversion Databank Foundation — *Vancouver, BC*
- Decreased initial loading time of web application by **72%** by moving website assets to **AWS** (DynamoDB, S3, AppSync, Kinesis), optimizing **webpack** bundle sizes and lazy loading various code files.
- Created End User License Agreement (EULA) infrastructure, retrieving it from S3 and displaying whenever admins update EULA text. Stored **metadata** of each user in **DynamoDB** through **Lambda function** execution.
- Utilized AWS **Open Search** to search for items from AppSync GraphQL models, and **automated daily re-indexing** for faster lookups of DynamoDB tables through a Lambda pipeline and AWS Event Bridge.

Web Developer Intern — Sep 2021 – Apr 2022
BGC Engineering Inc. — *Vancouver, BC*
- Worked in an **agile** team of 15 senior devs, appointed story points to tickets, and contributed in **scrum** meetings.
- Constructed new login page using Razor syntax in **C#**, authenticated users through .NET Core, and communicated with SQL database using **Entity Framework**. Increased client satisfaction by **100%** with better UI/UX.
- Collaborated with a tech lead and spearheaded the development of the primary layer control panel accessed by **thousands** of engineers daily, using **.NET, React and Redux**. Dynamically fetched layers and added functionality such as "zoom-to" and search capabilities based on the **tree structure** of the layers.
- Constructed feature-flag architecture and added **+30 REST API** endpoints in C# to communicate with database to conditionally determine which features to enable for different user roles.

Mobile Application Developer — Jul 2021 – Sep 2021
LivestockCity Inc. — *Remote*
- Worked on UI/UX and page navigation using **React Native** with Expo. Utilized Redux for state management.

PROJECTS

Weather Application | *React, GCP, Heroku* — Jun 2021 – Jul 2021
- Developed a weather app with **Firebase**, displaying graphical representation of 24-hour weather data of any city.

Food Recognition Application | *React, Express, PostgreSQL, Postman, Bcrypt, Knex.js* — Jan 2021 – Feb 2021
- Made a full stack web app to upload images and display the food items present, along with their macro-nutrient values. Stored food items and encrypted user data in a PostgreSQL database hosted on Heroku.

Workout Logging Application | *Java, JUnit, Swing* — Oct 2020 – Nov 2020
- Built a Java desktop app to store user weightlifting records. Unit tested with JUnit having 96% code coverage.

LEADERSHIP

President — Jun 2021 – Present
Computer Science Student Society, UBC — *Vancouver, BC*
- Provided an enriched learning environment for all **2700+** undergraduate CS students by collaborating with CS department at UBC in decision-making processes and spearheading events by leading a team of **60+ students**.

VP Tech and Logistics — Sep 2021 – May 2022
BizHacks — *Vancouver, BC*
- Co-ordinated a Prototype Hackathon sponsored by Apply Digital, raising **$6,500 revenue** with 90+ participants.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, SQL, HTML, CSS, SCSS, C#, C++, Python
Tools: React, Redux, AWS, Express, Node, Google Cloud Platform, Vue, JUnit, .NET, Microsoft SQL Server, Azure