

# 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.
- Other Activities - (Speaker) **Canadian Undergraduate Software Engineering Conference** [↗](#), (Undergraduate Representative) CS HOD Search Committee UBC [↗](#), (UBC Representative) Computing Councils of Canada [↗](#), (Mentor & Judge) **nwHacks** [↗](#), (Speaker) LEAP Canada [↗](#)

## WORK EXPERIENCE

### Software Engineer Intern

May 2023 – Aug 2023

*PayPal*

*Vancouver, BC*

- Worked in an **agile** team of 10 people, appointed story points to tickets, and contributed in **scrum** meetings.
- Led the creation of a sample application to demonstrate integration with PayPal's **DropIn UIs and APIs**, utilizing technologies such as **NextJS, Cypress, React-Bootstrap, and Iron-Session**.
- Implemented secure login/logout **user sessions**, storing the API credentials in an **encrypted cookie**. Observed a **reduction** in client developer onboarding time, enhancing efficiency in the merchant payouts team.

### Backend SDE Intern

May 2022 – Aug 2022

*Bio-Conversion Databank Foundation*

*Remote (Edmonton, AB)*

- 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 to protect the company from lawsuits, retrieving it from S3 and displaying whenever admins update EULA, storing **metadata** of each user in **DynamoDB**.
- 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*

- 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.
- Spearheaded the development of the main layer control panel accessed by **thousands** of engineers, using **.NET, React and Redux**. Added functionality such as 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 the database to conditionally determine which features to enable for different user roles.

## PROJECTS

### 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.

## LEADERSHIP

### President

May 2022 – May 2023

*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, Git, Microsoft SQL Server, Azure