




# Shubhaankar Sharma

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## EDUCATION

The University of British Columbia

Sep 2022 – Apr 2026

B.Sc. Computer Science Vancouver, Canada

**Awards:** Work Learn International Undergraduate Research Award (2025), International Student Scholarship (2024), Dean's Honour List (2023)

## WORK EXPERIENCE

UBC Systopia Labs

May 2025 – Aug 2025

Research Internship

- Conducting research under Dr. Arpan Gujarati on **latency analysis** of NVIDIA Holoscan SDK and NVIDIA's Green Context API.
- Evaluating response times and processing overhead for **real-time sensor data processing** in critical hospital systems.
- Built **C++** applications using Holoscan SDK and CUDA, hosted in Docker containers, and modified the SDK to measure component-level latency.

Horizon Blockchain Games Inc.

Dec 2021 – Oct 2024

Backend Developer (Part-time)

- Migrated DevOps stack to **Kubernetes and Pulumi**, replacing Ansible for enhanced deployment reliability.
- Built a **webhook service** in Golang supporting all EVM chains, capable of processing 60K transactions/second and notifying subscribers of relevant events.
- Developed a **Grafana-Prometheus dashboard** for real-time metrics of 5 services deployed in 3 different environments.
- Maintained and developed a high-traffic **metadata service** handling **1,500+ requests/min**, serving 200+ clients, utilizing highly optimized **PostgreSQL** queries.

## TECHNICAL PROJECTS

Obsidian Brain

Jan 2025

Python, NumPy, LanceDB, BM25

- Plug-in for Claude and ChatGPT that indexes Obsidian notes and provides context to your conversations.
- Utilizes a hybrid searching model combining results from a BM25 index and vector search-based results.
- Stored vectors made from Obsidian notes in LanceDB.
- Converted notes to vectors using BAAI's general embedding model.

Peersafe

Jan 2023

React, TypeScript, Solidity

- Developed a decentralized file storage platform with end-to-end encryption.
- Used Shamir's Secret Splitting for private key management without persistent storage.
- Designed a base key + file-level key system enabling efficient file sharing.

SimplAI

Sep 2022

React, TypeScript, Python, Flask, BERT Model, PostgreSQL

- Won 2nd place at HackTheValley UofT 2022.
- Created a web app to simplify legal documents using NLP for better public understanding.
- Trained a BERT model with 85% accuracy to flag complex legal jargon.

go-chi (Maintainer & Contributor)

July 2021 – Present

Golang

- Maintainer of 21+ repositories including [chi](#) (18.2k+ GitHub stars).
- Authored [httplog/v2](#), upgrading logging with Golang's [slog](#) API.
- Wrote the official project documentation at [go-chi.io](#).

## TECHNICAL SKILLS

**Languages:** Java, C++, Golang, Python, JavaScript, TypeScript, Dart, SQL, Bash

**Frameworks & Tools:** React, Kubernetes, Pulumi, FastAPI, Flutter, Git, Docker, pandas, NumPy, PyTorch