

Christian Susanto

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Education

University of British Columbia

B.Sc in Computer Science

May 2022 – May 2026

GPA: 4.0 (94%)

University of Toronto

B.Sc in Computer Science

September 2021 – April 2022

GPA: 4.0 (93%)

Coursework: Machine Learning, Advanced Algorithm Design, Internet Computing, Operating Systems

Work Experience

Amazon

August 2025 – December 2025

Software Engineer Intern - Amazon Freight

Vancouver, BC

- Developing an internal debugging portal with React to provide greater visibility into backend service responses
- Enhancing Java backend services to integrate with the portal and improve efficiency of issue diagnosis

Microsoft

May 2025 – August 2025

Software Engineer Intern - OneDrive

Vancouver, BC

- Built a local cache to accelerate OneDrive's initial sync by reducing redundant metadata downloads
- Parsed and generated compressed JSON artifacts (via GZip) to store file system metadata for Files On-Demand
- Wrote optimized C++ code to improve memory and I/O efficiency for large-scale sync scenarios
- Designed tests to validate correctness, concurrency, and performance of sync logic, reducing sync time by **25%**

University of British Columbia

August 2024 – April 2025

Teaching Assistant - Introduction to Relational Databases (CPSC 304)

Vancouver, BC

- Taught database concepts like relational schemas, normalization, SQL, and data warehousing (OLAP, OLTP)
- Mentored **50+** students to develop a full-stack application from design to implementation

Amazon

May 2024 – August 2024

Software Engineer Intern - Gift Card Tech

Vancouver, BC

- Implemented mobile notifications system using Java, Spring and AWS (S3, RDS, SQS) boosting user engagement by **2x**
- Designed new notification objects for gift card orders to allow for status notifications, reducing number of support tickets
- Led E2E tests in pre-production environments, deployment to fleet, and A/B release of the features

Lumentum

September 2023 – April 2024

Software Automation Test Engineer Intern - Design Verification

Ottawa, ON

- Built automated firmware regression tests for Lumentum products, increasing test coverage by **40%**
- Analyzed optical measurements with Pandas and NumPy, identifying **5+** defects on devices pre-production
- Developed Python and VB.NET instrument drivers for test automation on physical devices
- Resolved critical bugs in the end product by analyzing abnormalities in binary messages from modules

Projects

Virtual Notebook | *Express.js, React.js, MongoDB*

- Developed an online journaling app featuring rich-text editor and auto-saving using MongoDB Atlas
- Created a back-end REST API using Node.js and Express.js, validated using Postman and Jest
- Implemented a React application using efficient component-based architecture and routing, styled using Bootstrap

Huffman Coding Compression & Decompression | *Python, Pytest, Python Hypothesis*

- Implemented lossless file compression using Huffman coding, achieving a **30–40%** file size reduction
- Utilized Python type hints, and frameworks such as Pytest and Python Hypothesis library for fuzzing

Extracurricular Activities

Hackathons: HackTheNorth 2022, nwHacks 2023, nwHacks 2025

Indonesia Physics Olympiad 2019: Silver Medal (ranked 12th/1000+ nationally)

Affiliations: UBC Co-op Mentors

Technical Skills

Languages: Python, Java, C++, C, TypeScript, JavaScript, Bash, SQL, NoSQL, Assembly, C#, PHP, GLSL

Frameworks/Libraries: React, Node, Flask, Django, pandas, NumPy, scikit-learn, pytest, Spring, JUnit, Mockito, gMock

Other: Git, Docker, Kubernetes, Cloud Computing, AWS, REST, gRPC