Christian Susanto

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EDUCATION

University of British Columbia — May 2022 – May 2026
B.Sc. in Computer Science — GPA: 4.0 (94%)

University of Toronto — September 2021 – April 2022
B.Sc. in Computer Science — GPA: 4.0 (94%)

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

Teaching Assistant: Introduction to Relational Databases (UBC CPSC 304: Fall 2024, Winter 2025)

EXPERIENCE

Microsoft — May 2025 – August 2025
Software Engineer Intern — *Vancouver, BC*

- Exploring sync optimizations in C++ to reduce OneDrive's server load during initial metadata hydration.

Amazon — May 2024 – August 2024
Software Engineer Intern — *Vancouver, BC*

- Designed and implemented a mobile notifications system using Java, Spring and AWS Services (S3, RDS, SQS, SNS, SES) boosting user engagement by 2x and reducing customer support tickets.
- Optimized data integration for new features, ensuring low-latency performance across legacy services.
- Collaborated with cross-functional teams to design a robust solution for handling the notifications system.
- Led end-to-end 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 — *Ottawa, ON*

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

TECHNICAL SKILLS

Languages: Java, Python, C++, C, TypeScript, JavaScript, Bash, SQL, NoSQL, Assembly, C#, PHP, GLSL
Tools and Frameworks: AWS, JUnit, Spring, Docker, MongoDB, Node, React, Git, Flask, HTTP, Pandas

PROJECTS

Virtual Notebook

- 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 front-end React application using efficient component-based architecture and routing for seamless navigation, styled using Bootstrap and CSS.
- Built a CI pipeline using GitHub Actions to automate testing before merging to main branch.

Huffman Coding Compression & Decompression

- 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.

OTHER ACTIVITIES

Hackathons: HackTheNorth 2022, nwHacks 2023, nwHacks 2025

Indonesia Physics Olympiad 2019 Silver Medal, ranked 13th nationally.