

Jethro Hermawan

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EDUCATION

Simon Fraser University

BSc. in Computing Science

Burnaby, BC
Sept. 2024 – Present | Expected Graduation: May 2027

– **Awards:** Dean's Honour Roll

– **Relevant Coursework:** Software Testing, Reliability, and Security; Software Engineering; Object-Oriented Programming (OOP); Data Structures & Algorithms; Database Systems; Operating Systems; Networking

Langara College

As. in Computer Science

Vancouver, BC
Jan. 2023 – Aug. 2024

TECHNICAL SKILLS — SOFTWARE ENGINEERING

Software: VS Code, Eclipse, IntelliJ, Unreal Engine, Unity

Languages: C/C++, Java, C#, SQL, Python, HTML/CSS, JavaScript, TypeScript, Bash, Haskell

Frameworks/Tools: Git/GitHub, React, Node.js, JUnit, RESTful API, Tailwind CSS, SpringBoot, Docker, Java Swing, Makefile, cgdb/gdb, OpenCV, Mediapipe, AWS

Libraries: NumPy, TensorFlow, Scikit-learn

PROJECTS

UNIX Shell Implementation | C

January 2026

- Implemented a Unix-like command line shell in C supporting built-in commands, external program execution, I/O redirection, and pipelines by using pipe() for inter-process communication across multiple commands.
- Managed process creation and execution flow using fork(), execv(), and waitpid() following the Unix fork-exec model.
- Coded dynamic program lookup by parsing the PATH environment variable and validating executables using access().

Gesture-Controlled Media Player | Python, React, OpenCV, Mediapipe

Oct. 2025 – Nov. 2025

- Trained a machine learning model with 1,000+ HaGRID datapoints to map hand gestures to media player controls, demonstrating real-time classification at 90%+ accuracy.
- Implemented webcam input processing with OpenCV and Mediapipe for low-latency playback interaction and seamless integration into a React-based web interface.

Important Day Tracker | Java, SpringBoot

Feb. 2025 – Apr. 2025

- Built a Spring Boot API supporting CRUD operations with structured data models, ensuring 99% query success rate during local stress testing.
- Refactored legacy components using SOLID principles and reusable design patterns, improving code readability and reducing maintenance effort by 35%.

Homeplant Assistance | HTML, CSS, JavaScript, Docker

Sept. 2024 – Dec. 2024

- Integrated the Perenal API to process 100+ daily user queries, improving search relevance and reducing average response latency by 20%.
- Redesigned front-end interface through heuristic evaluations and user testing, increasing satisfaction scores by 30%.
- Implemented a CI/CD pipeline using Docker and GitHub Actions, reducing deployment time by 50% and maintaining 100% uptime during testing cycles.
- Led a 4-member Agile team in weekly sprints, defining clear milestones and achieving on-time delivery for all project phases.
- Automated GitHub workflows for pull requests and testing, reducing production bugs by 20%.

EXPERIENCE

Langara Chess Club

President

Vancouver, BC
Sept. 2023 – Aug. 2024

- Organized 3 university-level chess tournaments attracting 100+ participants, increasing club revenue by 33% and membership engagement by 20%.
- Collaborated with campus staff to coordinate logistics, design promotional materials, and manage club operations across multiple semesters.

ACHIEVEMENTS

Microsoft Ideathon 2025 Winner: Selected among 50+ competitors by pitching *KindLink*, an accessibility app connecting students and elderly Canadians to promote digital inclusion.

SKIO Music Remix Competition: Ranked Top 5 out of 476 participants globally, demonstrating creativity and strong time management.