

Derek Chu

Year 2, Combined Major in Computer Science and Mathematics

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Relevant Links: [LinkedIn](#) | [GitHub](#)

Languages: JavaScript, Python, Java, C, C++, R, HTML, CSS, Racket, MATLAB

Frameworks and Technologies: Git, Vue, Visual Studio Code

EDUCATION

The University of British Columbia

Vancouver, BC

B.Sc., Computer Science and Mathematics

Anticipated Graduation: 2026

- **Science Scholar Recipient** (cumulative average **90%+** with full course load).
- Coursework: Algorithms and Data Structures, Software Design, Computer Systems, Linear Algebra, Statistics, Mathematical Proof, Linear Optimizations

WORK EXPERIENCE

BrainDump

Vancouver, BC

Software Engineer – Contract-Based

Sep. 2023 - Present

- Worked in a small team of **3 developers**, regularly engaged in code reviews and product discussions.
- Implemented **user authentication** processes.
- Developed internal plugins for **user event logging** to analyze user engagement to track **KPIs**.

PAI Health

Vancouver, BC

QA Tester – Contract-Based

Dec. 2021 – May 2022

- **Identified and logged 60+ issues** involving the collection, measure, and analytics of data using **Jira**.
- Conducted field tests to verify beta and production code using Apple TestFlight.
- Communication with developer teams over Slack and daily stand-ups hosted on Zoom.

TECHNICAL PROJECTS

DOER | [Live Demo](#) | [GitHub](#) | (JavaScript, HTML, CSS, Git)

January 2024

- Developed a **web app** to group and display tasks using date-fns to handle dates.
- Modified the daisyUI component library for TailwindCSS for intuitive and responsive designs.
- Utilized the Web Storage API to handle local **data persistence**
- Leveraged SOLID principles to encourage maintainability and ease of testing/debugging.

CLARIFY | [Devpost](#) | (JavaScript, HTML, CSS, Git)

November 2023

- Chrome extension which translates English idioms into simple sentences.
- Integrated the Tailwind CSS framework to keep designs clean and consistent.
- Developed feature to convert highlighted text to a POST call to the backend.

Wishlist Management System | [GitHub](#) | (Java, Swing, JUnit, JSON, Git)

January 2023

- Developed GUI using Swing, allowing user to create and manage a wish list.
- Evaluated UML class diagram and applied design patterns, leading to a **25% reduction** in code coupling and **20% increase** in code cohesion
- Achieved 100% code coverage using data-driven testing with JUnit framework to create unit tests.
- Implemented **data persistence** using a third-party JSON package.

LEADERSHIP EXPERIENCE

Taiwanese Canadian Cultural Society

Vancouver, BC

Volunteer

Jan. 2020 – Present

- Monitored and assisted groups of **20+ children** in cultural activities to facilitate a safe environment.
- Collaboratively formed daily schedules within a dynamic team environment.