

# Caleb Chiang, Software Developer Intern

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**Website:** <https://chiangportfolio.netlify.app/>

**Github:** <https://github.com/calebchiang/>

**Technology:** HTML/CSS, JavaScript, React, NodeJS, Express, C, Java, MongoDB.

**Skills:** Problem-solving, web development, object-oriented programming, Agile development, Git version control, algorithms and data structures.

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## EDUCATION

Jun 2020 — Sep 2022	<b>Bachelor of Science (partial), Simon Fraser University</b> <ul style="list-style-type: none"><li>Calculus I for Biological Sciences, Introduction to Programming, Physics for Life Sciences, Introduction to Logic and Reasoning, Introduction to Cognitive Psychology.</li></ul>	Burnaby
Jan 2023	<b>Computer Systems Technology, British Columbia Institute of Technology</b> <ul style="list-style-type: none"><li>Discrete Mathematics, Web Development, Object-Oriented and Procedural Programming, Computer Architecture, Algorithms and Data Structures, Relational Database Systems.</li><li>Expected Graduation: January 2025</li></ul>	Burnaby

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## SOFTWARE EXPERIENCE

Feb 2023	<b>Global Game Jam 2023</b> <ul style="list-style-type: none"><li>Collaborated with industry professionals during a high-intensity weekend hackathon to develop a fully functional game, integrating expert advice on graphics and audio to enhance the gaming experience.</li><li>Engaged in rapid ideation and development processes, effectively leveraging team strengths to meet tight deadlines.</li><li>Presented the final game to an audience of peers and industry leaders, showcasing not only technical skills but also storytelling and user engagement capabilities.</li></ul>	Vancouver
Jan 2023 — Apr 2023	<b>Side Guide</b> <ul style="list-style-type: none"><li>Developed a pedestrian alert system as a full-stack web application, collaborating with a team for an academic course.</li><li>Adopted Agile Development practices, including daily Scrum meetings, to enhance collaboration and communication.</li><li>Utilized a robust technology stack comprising HTML, CSS, JavaScript, and Node.js for backend processes.</li><li>Integrated Firebase 8.0 as a Backend-as-a-Service (BaaS) solution for secure data storage, user authentication, and real-time data updates.</li><li>Employed the Google Maps API for precise location-based services, enabling users to effectively identify and manage hazards.</li></ul>	Burnaby
Dec 2023	<b>Sudoku</b> <ul style="list-style-type: none"><li>Crafted with React and showcased a streamlined single-page application.</li><li>Implemented a backtracking algorithm based on depth-first search principles to dynamically generate puzzles of varying difficulties.</li><li>The algorithm fills the board by exploring possible solutions, and retracting steps when encountering dead ends—a process that ensures each puzzle is both unique and solvable.</li><li>React's efficient state management facilitated real-time board updates and solution validation.</li><li>Styled for responsiveness using CSS.</li></ul>	Burnaby

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## RELEVANT EXPERIENCE

Jan 2023	<b>BCIT Computing Club</b> <ul style="list-style-type: none"><li>All-inclusive computing club at the British Columbia Institute of Technology.</li><li>Actively participated in events and hack-a-thons to gain experience and build connections with like-minded individuals.</li><li>Participated in collaborative study sessions to bolster understanding of programming concepts and enhance overall preparedness.</li></ul>	Burnaby
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