

# BRADY BROMLEY

bradybromley@live.ca

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## Education

2017 - 2023 **Simon Fraser University**

- Bachelor of Science with Distinction, Major Computing Science, Minor Mathematics, 3.92 Cumulative GPA

## Social

Portfolio  
LinkedIn

- <https://bradybromley.github.io/>
- <https://www.linkedin.com/in/brady-bromley-a0a663174/>

## Skills

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|----------------|---|
| Languages      | ▪ PHP, Python, Java, JavaScript, C, C++, C#   |
| OS             | ▪ Windows, Mac, Linux Ubuntu  |
| IDEs, Software | ▪ VS Code, VIM, IntelliJ, VirtualBox, Git, Laravel, jQuery, WordPress, AWS  |
| Databases      | ▪ Microsoft SQL Server, MySQL   |
| Other Skills   | ▪ Precise and detail oriented when working on projects,<br>Works well independently and in group settings,<br>Strong planning and organization skills,<br>Flexible in quickly changing environments |

## Technical Work Experience

May 2022 – Dec 2022 **Co-op Full Stack Developer**

- Gravit-e Technologies Inc.  
Vancouver, BC
- Efficiently context switched between 30 projects to work on high priority tickets in a fast-changing environment.
  - Updated a datetime structure for booking system, resulting in 100% reliable appointment tracking due to properly accounting for time zones.
  - Created APIs that delivered sales rep data for e-commerce sites 100s of times each day.

Sep 2020 – Apr 2021 **Co-op Embedded Software Developer**

- Semtech  
Richmond, BC
- Created static IP functionality for routers acting as hotspots, providing emergency services with 100% consistent IPs in remote locations.
  - Replaced a PHP cron job with a C++ daemon, resulting in a major increase in reliability due to auto-starting and auto-recovery from crashes.
  - Enforced data integrity and improved security in a legacy SQL database, resulting in a database without duplicate entries.
  - Migrated a legacy codebase from PHP 5.6 to 7.2 to improve performance and security.

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## Technical Project Experience

### Fall 2023 - Spring 2024 Healthcare Management Website

- Designed an example healthcare website in PHP, HTML, and JavaScript.
- Created a roles and permissions framework so that users can access different parts of the website based on their access level.
- Implemented an appointment booking system that allows patients to book appointments with physicians based on a physician's availability.

### Spring - Summer 2024 Stardew Valley Mods

- Designed several mods for the game Stardew Valley in C#.
- Used the Harmony library to prefix and postfix patch various methods for the game.
- Created a mod that adds useful information to the load game menu UI and is seamlessly compatible with other mods.
- Created mods that added level selections to minigames so that players don't have to restart from the beginning when playing them.

### Fall 2021 Computational Vision SFU, Burnaby, BC 3D Image Reconstruction

- Used two images and sets of points for an object at different angles to create matrices that determined the relationship between the two images.
- Triangulated the pairs of 2D points using the relationship between the images to find a set of 3D points and make a sparse 3D reconstruction of the object.
- Rectified the 2D images and computed a dense 2D reconstruction in the form of a depth map.

## Interests

2017 - 2023

- Enjoy playing video games and board games with friends. Grew up with Lego and enjoy building display sets.

## Awards

2019

- SFU President's Honour Roll

2017

- Governor General Award – Bronze Medal