

## Gabriel Martell

1152 Rocky Harbour Crescent

Ottawa, Ontario, K1V 1V1 | Cell: (613) 698-8050 | [g4brielmartell@gmail.com](mailto:g4brielmartell@gmail.com)

### EDUCATION

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**Honours Bachelors of Computer Science**, Computer Game Development Stream

**September 2020 - Present**

Carleton University, Ottawa, ON

- Fourth-year standing, 10.03/12 GCPA (A-)
- Irene Gertrude Stitt Scholarship Fund (2021-2022)
- Expected Graduation April 2025

### AVAILABILITY

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Available for 4 - 12 months beginning May 8th, 2024

### RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS

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#### Technical Skills

- Wrote a program in C with dynamic memory allocation and file manipulation to create a virtual library that allocated or unallocated space for books read from a file with the application allowing the user to check-in, check-out, or checks the library inventory
- Created a community fridge website using Javascript, CSS and HTML, allowing the user to checkout and donate items from local community fridges as well as view their contents which are precisely updated through the combined usage of MongoDB, NodeJS and Express as well as Postman for testing.
- Fabricated an online book store utilizing Python and SQL, providing console window UI and efficient database querying that allowed administration to accurately view sales, publishers and book stock and granted the user to add and remove books from their shopping cart, store payment information, and track their orders.
- Collected a stronger understanding of debugging by solving different logic and syntax errors that occurred in tutorials and assessments throughout the school terms.
- Solidified an understanding and proper use of application design and documentation to better represent and explain the implementation throughout assignments.

#### Communication Skills

- Collaborated with a multitude of co-counsellors to present a multitude of leadership-oriented workshops and events to highschool students.
- Recognized as a Cappies Critic, writing a number of analytical, respectful and descriptive high school play reviews for Canada's Capital Cappies, as well as presented personal summaries and thoughts in post-play meetings with other reviewers
- Guided new students around campus on occasion throughout high school, clearly introducing them to points of interest, classrooms and teachers.
- Achieved co-leadership of the high school technical crew, collaborating with other team members and assigning work as well as actively listening to advisors or cues during a showing
- Proficiently able to read, speak and write English

## APPLIED PROJECTS

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### COMP3005 Project Autograder

January 2024 - March 2024

COMP3005: Database Management, Carleton University, Ottawa, Ontario

- Created an autograder employing Python and PostgreSQL that clones student Github repository submissions and reads database dump files and student queries, recording times and efficiency.
- Applied csv file writing, reading and manipulation to hold query results, student information and calculated final scores.
- Performed a multitude of testing with a variety of use cases to ensure the autograder operates as intended.
- Answered and guided multiple students questions and concerns with the process of submitting their project to their repository.

### COMP3004 Team Project

March 2023 - April 2023

“Heartwave” Team Project, Carleton University, Ottawa, Ontario

- Constructed computer software for standalone heart monitoring devices which allowed users to measure, analyze and display HRV through heartbeat and coherence scores through C++ code in QtCreator application.
- Successfully planned a roadmap and assigned workflow allowing fluent team progress for the software to ensure the final product was delivered for expected date.
- Accurately created and modified diagrams and documentation that best describe the product through use cases, sequence diagrams and UML.
- Expanded and designed software UI to be more polished, attractive and overall more accessible to the user.

## WORK EXPERIENCE

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### Teaching Assistant

Sep 2023 - Dec 2023, Jan 2024 - Present

Carleton University (COMP2402), Ottawa, Ontario

- Helped students understand lectured and textbook material to progress and debug their code.
- Assigned with completing class assignments to test and debug the class’ online submission server.
- Created an autograder that clones GitHub repositories and determines runtime and determines correctness of SQL query scripts.

### Cook

May 2022 - September 2023

Brockville Country Club, Brockville, Ontario

- Aided the sous chef and executive chef in preparing and handling food for banquets, weddings, and other events.
- Responsible for both opening shifts and closing shifts including but not limited to turning equipment on, checking food and storage temperatures
- Tasked with teaching and guiding new hires with kitchen equipment and handling, line, recipes, and food and event preparation.

## VOLUNTEER EXPERIENCE/ EXTRA-CURRICULAR ACTIVITIES

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### Leadership Camp Guidance Counselor

September 2019

St. Francis Xavier Catholic High School, Ottawa, Ontario

- Planned, coordinated and hosted a multitude of leadership-oriented events, workshops and lessons for students given the opportunity to participate

### Cappies Critic

September 2019 - January 2020

The Cappies Inc. (Canada’s Capital Cappies), Ottawa, Ontario

- Wrote a variety of clear, positive, descriptive and respectful reviews of a wide range of secondary schools' drama clubs