

Avery Vine

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Education

Bachelor of Computer Science, Mobile Computing, Co-op

Sept 2015 - Present

Carleton University, Ottawa, ON

- 3rd Year Undergraduate, CGPA 10.7/12 (A-), Expected graduation April 2020

Availability

Available for 4 months beginning May 2018

Relevant Work Experience

Integration Specialist

May 2017 - Dec 2017

TravelClick, Ottawa, Ontario

- Integrated TravelClick's proprietary software with that of our clients and partners, using a comprehensive knowledge of web services, XML, relational databases, and Java programming
- Liaised with clients and vendors to work out how integrations would work, co-ordinate data exchange, and make sure they were satisfied
- Troubleshooted and solved problems that occurred in production systems using analytical skills

Undergraduate Research Assistant

May 2016 - Sept 2016

Carleton University, Ottawa, Ontario

- Researched and implemented multiple C++ applications, each using a different algorithm for finding the shortest path to a moving target, with the end goal of choosing the most efficient one
- Brainstormed with the professor many possible ways to reduce the number of calculations necessary to find the shortest path to a moving target with our chosen algorithm

Applied Projects

App Developer

Feb 2016 - Sept 2016

Two Buttons - The Reflex Tapping Game

URL: <https://goo.gl/li7qXt>

- Applied knowledge of Swift, the Singleton pattern and the Model-View Controller to create a functional, efficient application
- Overcame challenges such as not knowing how to persistently store data, through independent research and testing
- Released the application on the iOS App Store, after delays due to developer age restrictions

Co-Developer

Oct 2017

League Stats Application

URL: <https://goo.gl/TDbK6h>

- Independently learned to use both Electron and Bootstrap to create a seamless cross-platform user experience
- Familiarized myself with both the Riot API and the ChampionGG Api in order to source data
- Next steps involve creating personalized ban suggestions based off of recent games

Web Developer

Feb 2017

Notepadd

URL: www.notepadd.net

- Applied knowledge of Github to efficiently collaborate with three team members
- Brainstormed various implementations of music playback in order to select the toolkit that produced the best synthesized sound
- Created an in-depth presentation to advertise the final product to a series of judges at the 2017 QHacks hackathon

Relevant Skills, Experiences, and Accomplishments

Technical Skills

- Developed a console-based grocery store POS application in C++ using object-oriented programming concepts like polymorphism along with design patterns like façades
- Created several web apps using Javascript, HTML, and CSS, with the latter ones being able to interact with a MongoDB database using RESTful APIs
- Constructed various data structures using elements of the Java Collections Framework in order to solve binary tree and list efficiency problems

Communication Skills

- Discussed with professor the results from previous testing of each phase of our shortest path algorithm, and the technical challenges we expected to face with each new iteration
- Documented all functionality in “ReadMe” files on every project to facilitate code comprehension
- Collaborated with co-workers at Subway to ensure that all restaurant tasks were accomplished before the end of each shift

Problem Solving Skills

- Implemented various command line and graphical solutions to understand the more common shortest path algorithms in depth
- Conducted increasingly specific tests to discover and remove sources of error in several implementations of shortest path algorithms
- Prioritized tasks that needed to be accomplished during time working at Subway restaurant, such as cleaning, baking, and serving customers

Other Work Experience

Piano Instructor

June 2016 - June 2017

Lauzon Music, Ottawa, Ontario

- Using both oral and written methods of communication, I imparted musical techniques to students, enabling them to improve their ability to play
- Encouraged children to evaluate and analyze various elements of the music for themselves, in order to grow their musical understanding
- Taught children skills such as dedication to a task and prioritization, by helping them recognize and achieve short, medium, and long-term goals

Sandwich Artist

May 2015 - May 2016

Subway, Ottawa, Ontario

- Prioritized tasks during the work day in order to complete them efficiently and ensure that coworkers in later shifts weren't overwhelmed with leftover work
- Contributed to a positive restaurant environment by fully committing to work each day, ultimately increasing customer and employee satisfaction
- Dedicated time to inspecting the restaurant during each shift to ensure cleanliness

Extra-Curricular Experience

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| • Mentor at the Carleton Science Student Success Centre | Since 2017 |
| • Achieved 3rd place in the 2017 Carleton Code Guru Competition | April 2017 |
| • Attended the QHacks hackathon at Queen's University | Feb 2017 |
| • Achieved 2nd place in the 2016 Carleton Code Guru Competition | April 2016 |
| • Member of the Carleton Computer Science Society | Since 2015 |
| • Reached provincial finals in the ECOO Programming Competition finals in Toronto | May 2015 |