


AUSTIN VAN BRAECKEL

Software Engineering Co-op Student

(519) 212-9612 

avanbrae@uoguelph.ca 

<https://avanbraeckel.github.io> 

TECHNICAL SKILLS

- **Languages:** Java, C, C#, Bash, Python, JavaScript, Ruby, Visual Basic, Perl
- **Developer Tools:** VS Code, VS, NetBeans, Git, Gradle, Docker, Postman
- **Methodologies:** Agile SDLCs, Pair-Programming, Unit Testing, Code Review
- **Operating Systems:** Windows, Debian 10, Mac OS

EDUCATION

Bachelor of Computing Sep 2019 - Present
Software Engineering Co-op, Minor in Mathematics
University of Guelph Guelph, ON

- Earned cumulative average: 93%
- Won the Dean's Scholarship for having a top grade average in the University's College of Engineering and Physical Sciences for the 2019-2020 academic year
- Completed CIS*2500: Intermediate Programming (grade: 100%)
 - Used dynamic memory allocation and pointers to build a List ADT in the C programming language, in a Debian 10 Linux environment
- Completed CIS*2750: Software System Development and Integration (grade: 100%)
 - Built a web interface with html, css, bootstrap, JavaScript, and Node.js, with a C backend that interacted with SQL, which allowed users to calculate and view a variety of information regarding GPX files, as well as edit/create them

Ontario Secondary School Diploma Sep 2015 - Jun 2019
Centennial C.V.I. Guelph, ON

- Brendan J. Eccles Award - for outstanding achievement in sports and computing
- Awarded Ontario Scholar – CCVI Class of 2019 Dean's Honour List, for 95% average
- Vice-President of the Sports Council, leading in both organizing and running intramurals, tournaments, and school-spirit events

PROFESSIONAL EXPERIENCE

STUDENT STAFF TEAM MEMBER Jan 2020 - Present
UofG Computing & Communications Services Guelph, ON

- Help clients with IT-related issues in the main campus library, helping to further understand various technological concepts, including networks
- Improve both verbal and written communication skills by taking calls and answering emails from University staff and students who have technical issues

SOFTWARE DEVELOPER CO-OP Jan 2023 – Aug 2023
Magnet Forensics Ottawa, ON

- Practiced Agile Scrum methodologies with a small team to develop a desktop application, Magnet AXIOM Process, with the Remote Acquire feature being in particular, using C#/.NET
- Completed both the backend and frontend portions of many tasks, using C# and workflows, including adding a new application setting for specifying a certificate
- Led a spike/investigation task for the team, and completed the resulting proof of concept, regarding the extension of the product's compatibility with Mac OS

SOFTWARE DEVELOPER CO-OP May 2022 – Aug 2022
Magnet Forensics Waterloo, ON

- Utilized Agile Kanban methodologies with a small team to develop a web application, Magnet REVIEW, built with a React frontend and C# backend
- Individually responsible for major frontend changes within the product such as new UI navigation links/buttons for features in development, as well as adding necessary alerts/warnings
- Worked with the UX Design team to improve the product's usability, helping to run a usability study, and clarifying plans for the UI when working on frontend tasks

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER CO-OP NCR Corporation

May 2021 – December 2021
Waterloo, ON

- Investigate reported incidents to confirm existence of bugs of varying severity, and develop solutions for the discovered issues, across the all code repositories needed for the main project, "Tx Infinity API"
- For the final 2 months, moved to an Agile Scrum team to develop REST APIs for a new project involving revolutionizing ATM software, and practice Agile methodologies

BASEBALL ONTARIO LEVEL 3 UMPIRE Guelph Minor Baseball Association (GMBA)

Mar 2012 – Aug 2021
Guelph, ON

- Develop strong collaboration and communication skills through working with various partners to officiate high-level, competitive baseball games
- Learn to show a high degree of professionalism when dealing with angry spectators, coaches, and players, also improving the ability to engage in difficult conversations

CREW MEMBER McDonald's Canada

Sep 2017 - Jul 2018
Guelph, ON

- Improved attention to detail due to the act of assembling orders and making drinks
- Worked with the team to keep customer satisfaction high in very busy times, developing collaboration and communication skills in a fast-paced environment

PERSONAL PROJECTS

TRANSIENT – VIDEO GAME 2-Dimensional Platformer

Dec 2018 - Jan 2019

- A video game made entirely in Java from scratch, using Object-Oriented programming, with logical class hierarchies and encapsulation
- Developed an executable using NetBeans' build feature and dynamically-loading resources which contributed to better compatibility across platforms
- Implemented environment-based physics, several sprites with Java's 2D Graphics class library, as well as sounds and music with external libraries

PERSONAL SHOWCASE – WEBSITE <https://avanbraeckel.github.io>

Jan 2020 – Aug 2023

- Developed a personal website, hosted by GitHub, using HTML and CSS, which contributed to an increased understanding of web development, also showcasing the details of my past co-op work terms and personal projects

EXTRA CURRICULARS

CODING CHALLENGES/COMPETITIONS

Code to Win Challenge

Sep 2019 - Oct 2019

ECOO Programming Contest

May 2019

Canadian Computing Competition (CCC) - Senior

Nov 2018

Canadian Computing Competition (CCC) - Junior

Nov 2017

- Received a Certificate of Distinction for scoring in the top 10%

HACKATHONS

SpartaHacks IV

Dec 2019

NCR Corporation Global Hackathon

July 2021

Magnet Forensics Magnetathon Hackathon

July 2022

VOLUNTEER EXPERIENCE

BASEBALL CAMP INSTRUCTOR Hithouse – Peak Performance Athletics

Mar 2014 - Aug 2017
Guelph, ON

- Communication skills improved through coaching athletes from ages 7 to 13 by conducting drills and demonstrations, as well as giving personal feedback, in order to improve their baseball skills
- Developed leadership skills due to having the responsibility of ensuring a several campers' safety during drills involving possibly dangerous items such as baseball bats and baseballs