

# Anthony Arseneau

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## EDUCATION

<b>Mount Allison University</b> <i>Bachelor of Science in Computer Science, Minor in Mathematics</i> <ul style="list-style-type: none"><li>GPA: 3.7/4.3</li></ul>	Sackville, NB <i>Expected May 2025</i>
<b>École Secondaire Népisguit</b> <i>High School Diploma</i> <ul style="list-style-type: none"><li>Final Grade: 98.2%</li></ul>	Bathurst, NB <i>Class of 2021</i>

## EXPERIENCE

<b>Web Developer</b> <i>Personal Contract</i> <ul style="list-style-type: none"><li>Developed a high-performance website using HTML, CSS, and JavaScript, increasing client visibility and user engagement by over 500%, attracting more than 1,100 unique users per month.</li><li>Collaborated closely with the client to provide comprehensive assistance throughout the domain registration process, management of the hosting setup, and migration of the website to the new platform.</li><li>Monitored website traffic and performance metrics through advanced analytics tools, such as Cloudflare, which contributed to a 33% improvement in website loading speed, overall security, and user experience.</li></ul>	Moncton, NB <i>May 2024 – Present</i>
<b>Maintenance Worker and Technician</b> <i>Madisco Apartments</i> <ul style="list-style-type: none"><li>Gathered over 35,000 views on Google Street View by capturing and processing 360-degree footage using image stitching software and geospatial data engineering techniques, increasing client engagement and boosting online visibility.</li><li>Assisted in the installation of new machinery, ensuring compliance with safety and engineering standards.</li><li>Designed mechanical parts for broken or missing components using CAD software like Autodesk Fusion 360.</li><li>Operated heavy machinery to assist with construction and performed basic maintenance tasks, including cleaning, painting, and minor repairs to maintain safe and efficient operations.</li></ul>	Bathurst, NB <i>Summers 2018 – 2024</i>
<b>President of Residence</b> <i>Mount Allison University</i> <ul style="list-style-type: none"><li>Spearheaded a wide array of successful events, fostering inclusive community within the Thornton House residence.</li><li>Orchestrated seamless communication between the residence and the university, serving as the primary liaison to ensure residents' needs, and delegated responsibilities to an executive team, ensuring smooth execution of initiatives.</li></ul>	Sackville, NB <i>September 2023 – April 2024</i>

## PROJECTS

<b>Portfolio Website</b> <i>Personal Project</i> <ul style="list-style-type: none"><li>Created a website hosted on a personal server that showcases all projects and skills, including images and videos.</li><li>Increased personal visibility and engagement by gathering more than 600 unique users per month.</li><li>Implemented responsive design using HTML, CSS, and JavaScript to ensure optimal performance across devices.</li><li>Improved site security and performance by integrating HTTPS and optimizing load times for images and videos.</li></ul>	Bathurst, NB <i>January 2024 – Present</i>
<b>Encrypted Messaging Application</b> <i>University Project, Computer Networks</i> <ul style="list-style-type: none"><li>Designed a secure messaging application that utilizes cryptographic algorithms, such as RSA, AES, and SHA-256.</li><li>Utilized Computer Networks frameworks and the Java programming language to achieve this project.</li><li>Conducted rigorous testing to ensure data integrity, confidentiality, and resilience against common network vulnerabilities.</li></ul>	Sackville, NB <i>January 2024 – April 2024</i>
<b>Self-Leveling Robot</b> <i>University Project, Digital Signal Processing and Electronics</i> <ul style="list-style-type: none"><li>Developed a robotic platform to balance a steel bearing ball under various perturbations.</li><li>Leveraged CAD software, PID systems, C++, and electrical tools, such as microcontrollers and precise stepper motors.</li><li>Contributed to project planning, troubleshooting, and iterative prototyping in a team environment to optimize performance.</li></ul>	Sackville, NB <i>September 2023 – December 2023</i>

## AWARDS

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### Dean's List

*Mount Allison University*

- Recognized with Dean's List standing throughout multiple academic years.
- Awarded for outstanding academic performance and excellence among top-performing students.

Sackville, NB  
*2021-22, 2023-24*

### Entrance Scholarship

*Mount Allison University*

- Awarded entrance scholarship upon admission at Mount Allison University.

Sackville, NB  
*September 2021*

## CONTESTS

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### Northeast North America Regional Contest

*International Collegiate Programming Contest*

- Competed against leading universities in the Northeast North America region.
- Recognized as the top performing team from Mount Allison University at the competition.

Sackville, NB  
*November 2021, November 2024*

### Alberta Collegiate Programming Contest

*University of Calgary*

- Competed in the Alberta Collegiate Programming Contest.

Sackville, NB  
*October 2024*

### Atlantic Canadian Programming Contest Finalist

*Science Atlantic, Acadia University*

- Achieved 3<sup>rd</sup> place at the 2024 Science Atlantic Programming Competition.
- Recognized as the top performing team from Mount Allison University at the competition.
- Demonstrated advanced analytical and problem-solving skills in competitive programming.

Wolfville, NS  
*October 2024*

### Poincaré Mathematics Provincial Contest

*Université de Moncton*

- Achieved 5<sup>th</sup> place at the provincial Poincaré Mathematics Contest.
- Showcased strong analytical and problem-solving skills in competitive mathematics.

Bathurst, NB  
*2021*

### Waterloo Mathematics Contests

*University of Waterloo*

- Competed in the Pascal and Fermat Waterloo Mathematics Contests.

Bathurst, NB  
*2018-19*

## RELEVANT COURSEWORK

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Digital Signal Processing and Electronics, Artificial Intelligence, Advanced Data Structures, Cryptography, Discrete Structures, Systems Programming, Computer Networks, Object-Oriented Design, Database Systems, Data Science, Algorithm Analysis, Software Design, Data Structures and Algorithms I, Differential Equations, Multivariable Calculus, Linear Algebra, General Physics I, General Physics II.

## SKILLS

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**Programming Languages:** Java, Python, C++, WebDev Languages (HTML, CSS, JavaScript).

**Engineering Proficiencies:** CAD Software, 3D Printing, Mechanical Systems Analysis, Robotics, Electrical Troubleshooting, System Optimization, Soldering, Signal Processing, Control Systems, Project Management, Technical Documentation, Physics, Mathematics.

**Spoken Languages:** Fluent in French and English.

**Soft Skills:** Problem-Solving, Communication, Teamwork, Leadership, Adaptability, Attention to Detail, Creativity, Conflict Resolution.

## CERTIFICATIONS

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### Diversity, Equity and Inclusion Certificate

*Canadian Centre for Diversity and Inclusion (CCDI)*

- Completed the Diversity, Equity, and Inclusion Certificate through the Canadian Centre for Diversity and Inclusion.
- Gained skills in promoting inclusive practices, addressing bias, and fostering diverse workplace environments.

Sackville, NB  
*September 2023*

### Small Remotely Piloted Aircraft in Visual Line-Of-Sight (VLOS)

*Transport Canada*

- Certified to operate small remotely piloted aircraft within Visual Line-of-Sight (VLOS).
- Skilled in safe navigation and control of drones for various applications within VLOS guidelines.

Bathurst, NB  
*July 2019*