

Anthony Arseneau

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EDUCATION

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

EXPERIENCE

Web Developer <i>Personal Contract</i> <ul style="list-style-type: none">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.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.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.	Moncton, NB <i>May 2024 – Present</i>
Maintenance Worker and Technician <i>Madisco Apartments</i> <ul style="list-style-type: none">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.Assisted in the installation of new machinery, ensuring compliance with safety and engineering standards.Designed mechanical parts for broken or missing components using CAD software like Autodesk Fusion 360.Operated heavy machinery to assist with construction and performed basic maintenance tasks, including cleaning, painting, and minor repairs to maintain safe and efficient operations.	Bathurst, NB <i>Summers 2018 – 2024</i>
President of Residence <i>Mount Allison University</i> <ul style="list-style-type: none">Spearheaded a wide array of successful events, fostering inclusive community within the Thornton House residence.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.	Sackville, NB <i>September 2023 – April 2024</i>

PROJECTS

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

AWARDS

Dean’s List <i>Mount Allison University</i> <ul style="list-style-type: none">Recognized with Dean’s List standing throughout multiple academic years.Awarded for outstanding academic performance and excellence among top-performing students.	Sackville, NB <i>2021-22, 2023-24</i>
Entrance Scholarship <i>Mount Allison University</i> <ul style="list-style-type: none">Awarded entrance scholarship upon admission at Mount Allison University.	Sackville, NB <i>September 2021</i>

CONTESTS

Northeast North America Regional Contest <i>International Collegiate Programming Contest</i> <ul style="list-style-type: none">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 <i>November 2021, November 2024</i>
Alberta Collegiate Programming Contest <i>University of Calgary</i> <ul style="list-style-type: none">Competed in the Alberta Collegiate Programming Contest.	Sackville, NB <i>October 2024</i>
Atlantic Canadian Programming Contest Finalist <i>Science Atlantic, Acadia University</i> <ul style="list-style-type: none">Achieved 3rd 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 <i>October 2024</i>
Poincaré Mathematics Provincial Contest <i>Université de Moncton</i> <ul style="list-style-type: none">Achieved 5th place at the provincial Poincaré Mathematics Contest.Showcased strong analytical and problem-solving skills in competitive mathematics.	Bathurst, NB <i>2021</i>
Waterloo Mathematics Contests <i>University of Waterloo</i> <ul style="list-style-type: none">Competed in the Pascal and Fermat Waterloo Mathematics Contests.	Bathurst, NB <i>2018-19</i>

RELEVANT COURSEWORK

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.
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SKILLS

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

Diversity, Equity and Inclusion Certificate <i>Canadian Centre for Diversity and Inclusion (CCDI)</i> <ul style="list-style-type: none">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 <i>September 2023</i>
Small Remotely Piloted Aircraft in Visual Line-Of-Sight (VLOS) <i>Transport Canada</i> <ul style="list-style-type: none">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 <i>July 2019</i>