

Aaliyah Pirani

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EDUCATION

University of Toronto, St. George Campus

(exp) Apr. 2027

Bachelor of Science in Computer Science & Biology

GPA: 4.0/4.0

- \$70,000 – TD Scholarship for Community Leadership (May 2024)
- \$12,000 – Howard Ferguson Admission Scholarship (Sep. 2024)
- \$1,500 – UofT Scholar for Exceptional Academic Achievement (Jul. 2025)

EXPERIENCE

Data Risk Management Intern

May 2025 - Aug. 2025

Toronto Dominion Bank

Toronto, ON

- Designed and developed an internal application for DRM team, streamlining cross-department process workflows and reducing administrative workload across multiple departments using Microsoft PowerApps
- Reviewed and challenged data risk profiles by assessing both quantitative (metric-based) and qualitative (non-metric) attributes using Microsoft Power BI

Student Research Associate

May 2024 - Apr. 2024

University of Calgary

Calgary, AB

- Analyzed hemodynamic forces as a biomarker for heart disease in rTOF patients using Segment in MATLAB & SPSS for statistical processing under Dr. Julio Garcia Flores
- Presented findings at the ISMRM conference in 2024, showcasing their potential for early heart disease diagnosis.

LEADERSHIP & VOLUNTEERING

Sumo Robot Project Manager

Aug. 2025 - PRESENT

University of Toronto Robotics Association

Toronto, ON

- Led a 100+ member beginner Sumo Robotics team training newcomers in mechanical design using SolidWorks, Arduino circuitry and C++ coding, making robotics more accessible to inexperienced students
- Organized an inter-university Sumo Robotics competition, managing operations, communications, and social media, while fostering a collaborative community that introduced beginners to robotics and engaged multiple universities in the event

Warrant Officer Second Class

Sep. 2018 - Aug. 2024

Royal Canadian Air Cadets

604 "Moose" Squadron, AB

- Supervised 60 cadets nightly, coordinating instructors and senior cadets to ensure tasks were completed efficiently while teaching meteorology, aviation physics, drill, dress, and deportment, fostering skills and confidence in all participants

PROJECTS

My Very Own Neural Network | *Python, NumPy*

Jun. 2025 - Aug. 2025

- Built a neural network from scratch manually implementing feedforward and backpropagation algorithms with sigmoid activation to learn nonlinear patterns and understand how each layer contributes to prediction
- Trained and tested the network on the MNIST dataset, achieving 93% classification accuracy while gaining hands-on experience in weight initialization, loss optimization, and model evaluation

Aqualens Water Quality Testing App Front-End | *Dart, Flutter, Git*

Nov. 2024 – Mar. 2025

- Designed and implemented the home page and login page UI in Flutter, optimizing layouts and interactions to meet user needs and improve usability across multiple devices
- Collaborated with a team using Git to integrate front-end components with a simple backend, learning to adapt solutions to user requirements rather than applying a one-size-fits-all approach

TECHNICAL SKILLS

Languages/Frameworks: Java, Python, C++, HTML/CSS, R, LaTeX, Flutter, Dart

Tools & Platforms: Arduino, Git/GitHub, SolidWorks

Libraries: pandas, NumPy, Matplotlib, scikit-learn, SciPy