**Gajanan Vigneswaran**

Toronto, ON

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# Summary

[SUMMARY]

# Skills and Interests

* **Programming Languages:** **Python**, Java, JavaScript, HTML, CSS, C, C++, SQL, Elixir
* **Developmental tools:** Git/GitHub, Unix/Linux environments, Linux shell script, Selenium, Node.js, React.js

# Education

**Toronto Metropolitan University (formally Ryerson University)** Toronto, ON

Bachelor of Science in Computer Science (BS) **GPA 4.02/4.33** Sep 2023 - Apr 2027

**Relevant Coursework:**

* **Python**, **Object-Oriented Design** (Java), UNIX Environments, C and C++, Probability and Statistics I with R
* **Data Structures and Algorithms,** Calculus I - II, Linear Algebra, Discrete Mathematics

# Work Experience

**Toronto Metropolitan University Translational Medicine Laboratory**  Toronto, ON

Research Assistant May 2024 - Aug 2024

* **Awarded** the Undergraduate Research Opportunities Award from the TMU Faculty of Science.
* Developed a deep learning model to improve **multimodal medical image registration**, a process that aligns medical images from different sources (e.g., MRI and US scans) to reduce costs while improving diagnosis and treatment.
* Conducted a **literature review** on deep learning techniques for image registration, analyzing 25+ research papers.
* **Presented** project proposals to my professor and led a knowledge transfer sessions for incoming master’s students.
* **Technologies:** **Python**, **TensorFlow**, NumPy, matplotlib, Jupyter Notebook, pandas.

# Projects