

# Aditya Rajeev

(U.S. Citizen)

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Seeking a challenging internship that gives me exposure to cutting-edge industrial software development.

## Experience

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Research Assistant | [Vector Institute](#) and University Health Network April 2024 – Present

- Working with Prof. Michael Brudno (University of Toronto)
- Engineered image segmentation software to annotate over 2000 images for training with PyTorch
- Developed AI models capable of detecting/segmenting tubes in X-rays with **over 85% accuracy**
- Employed **generative AI techniques** to in-paint segmented areas, removing tubes from images
- Honored to be the first undergraduate student to contribute to this lab

Researcher | Pioneer Academics May 2022 – September 2022

- Worked with Prof. Anthony Hoffman (University of Notre Dame)
- Did independent research on the effects of quantum gate error on machine learning models
- Described by Professor Hoffman as “**in the top three of undergraduate students** that I have had in class or supervised in my research” (Full evaluation here: <https://bit.ly/PioneerEvaluate>)
- Paper and code available here: <https://github.com/Steelcrawler/PioneerResearchCode>

## Education

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University of Toronto (GPA: 3.97/4.0) September 2023 - 2026

Computer Science Specialist (**Dean's List Scholar**) | Focus Areas: AI and Computer Systems

Relevant Coursework (by Summer 2025): Data Structures/Algorithms (Python), Linear Programming, Software Design (Java), Systems Programming (C/Unix), Intro to Databases, Intro to Machine Learning

## Notable Projects

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**DeepEmotion ML Developer** (<https://tinyurl.com/DeepEmotion>)

- Developer for the DeepEmotion project with the UofT machine intelligence student team, working on developing machine learning algorithms for continuous fMRI classification

**Aercoustics ML Developer** (<https://aercoustics.com/>)

- Working to develop ML Algorithms for Aercoustics, a sound engineering company based in Toronto

**Citadel Invitational Terminal One Hackathon** (<https://github.com/Steelcrawler/CitadelHackathon>)

- Selected by Citadel to develop an algorithm with a team to compete in the Terminal One game

**UOFT Hacks** (<https://github.com/Steelcrawler/UofTHacks11>)

- Lead a team that used Cohere AI, Eleven Labs, and DALL-E to build an AI chatbot that mimicked cartoon characters. Utilized Azure and Heroku for backend development

## Skills

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**Python:** Fluent, 3 years of experience, proficient with PyTorch, OpenCV, Diffusers, Flask, Qiskit

**Java:** Fluent, 4 years of experience, implemented applets

**Front-end Development:** Experience with Javascript (React), Tailwind CSS, HTML to build websites

**Linux/Slurm:** Research experience with Linux to manage workspaces and Slurm to allocate resources

**Machine Learning:** Experience with image segmentation, diffusion models, transformers

**Git/GitHub:** Proficiency with use of Git for version control and GitHub

**SQL/Excel:** Working knowledge of SQL and Excel to manage and manipulate large databases