**Gabriel Jude**

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# Education

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

Bachelor of Science in Computer Science Sept 2021-May 2025

**Relevant Coursework:** Machine Learning, Artificial Intelligence, Software Engineering, Data Structures, Algorithms, Database, Web Systems , Networks, Operating Systems , Computer Organization, Discrete Math

**Languages:** Python, C/C++, Java, Bash **Tools:** WSL, Git, VMWare

**Back End:** AWS, Azure, Mongo dB, APIs Oracle SQL **Front End:** HTML/CSS, React

# Work Experience

**Toronto Metropolitan University Rare Disease Club Toronto, ON**

### Full-Stack Software Developer Intern May 2023-Present

* Revamped the club website by transitioning it from basic HTML code to a mobile-responsive React-based website, resulting in a 50% increase in page views and a 20% decrease in bounce rate
* Steered a strategic Full Stack refactoring initiative, adeptly managing the software development lifecycle and meeting project milestones within strict timelines.
* Optimized website speed and performance by reducing page load time by 50%, resulting in a 15% increase in organic search traffic.

# Personal Projects [Portfolio](https://www.gabrieljude.com/projectdirectory)

## Unsupervised Learning Model: Toronto House Prices

## Python, Scikit-learn, Matplotlib

* Developed a machine learning project on Toronto housing prices using Kaggle data. Achieved over 90% accuracy in clustering through meticulous preprocessing, including K-Means and hierarchical algorithms.
* Utilized data visualization techniques, like scatter plots and an elbow diagram, to gain insights into the Toronto housing dataset. Demonstrated proficiency in interpreting clustering results, achieving optimal cluster determination.
* Evaluated K-Means and hierarchical clustering, comparing metrics like the Silhouette Score. Successfully drew meaningful conclusions, identifying location-based patterns in Toronto housing prices.

## Discord Bot Application

## Python , Google Calendar API , Azure Hosting

* Developed a Python-based Discord Bot with Google Calendar API integration for efficient retrieval and display of students' daily schedules, improving community event organization and communication.
* Established a high-performing Linux Virtual Machine on Microsoft Azure to host the Discord Bot, achieving an impressive 1% downtime for continuous and reliable operation.
* Seamlessly connected Google Calendar API and Discord Bots through detailed documentation analysis, enhancing functionality and user experience in the Discord Bot application.

## Campus Mapper App Suite

## Java, Android Studio, HTML,CSS , Javascript

* Collaborated in crafting a robust Android application and website, providing an integrated solution for seamless campus navigation.
* Orchestrated the backend authentication service and implemented a secure database using Google Firebase and Java, ensuring a reliable and protected user sign-in experience.
* Contributed to the intuitive user interface of the Android app using XML and Android Studio, while also enhancing the website's user experience with an HTML-based dropdown menu.

# Leadership Experience

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**Idea Lab Kids Stouffville, ON**

**STEM and Coding Instructor *July 2022 – August 2022***

       Instructed fundamental STEM and coding concepts, including Java, Arduino, Scratch, and Electrical Engineering, fostering holistic STEM understanding in students.

       Displayed effective communication skills in interactions with superiors, colleagues, and students, conveying subject matter with depth and accessibility

       Prepared weekly lesson plans and engaged in advanced self-study to ensure effective delivery of the curriculum.