

# Gabriel Jude

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## Summary of Qualifications

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- Well-versed in using APIs, working in a Unix environment, programming in Bash, and data structures and algorithms
- Python experience utilizing APIs and created a discord bot that prints out students' daily schedules using the Google Calendar API.
- Excellent cooperation skills: worked with a group of five students to design, create, and implement a software engineering project that took the shape of an Android app and website for navigating school campuses both inside and outside.
- Developed a personal portfolio website utilizing HTML, CSS, Cloudflare, and GitHub to demonstrate full-stack skills.

## Education

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

*Expected Graduation, 2025*

Bachelor of Science in Computer Science

- Relevant Coursework: 4.33-Intro to Python, 4.33-Intro to Unix, C and C++ 4.33-Object Oriented design principles with Java
- GPA: 3.87/4.33
- Dean's List, Admission Scholarship for admission average of above 90%

## Technical Skills

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**Languages:** Python, Java, C/C++, Bash, HTML, PHP, XML, CSS, Discord Python, Arduino

**Technologies/Software:** GitHub, Visual Studio Code, Unix Terminal, IntelliJ, Microsoft Office, Android Studio, Azure, WSL2

## Personal Projects

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[Portfolio](#)

### Personal Portfolio Web Application – HTML, CSS, GitHub, Cloudflare Pages

- Designed and deployed a full-stack personal portfolio web application that offers users a variety of ways to browse the portfolio.
- Used web development languages HTML, and CSS, in combination with GitHub and Cloudflare, pages to host website
- Learned how to port forward websites and assign CNAME records using Google Domains.

### Discord Bot Application – Python, Google Calendar API, Discord Python Library, Microsoft Azure Hosting

- Developed a Discord Bot that prints out a student's daily schedule from Google Calendar in a Discord Channel, helping students' friend groups organize events like studying sessions.
- Utilized cloud-computing technology Azure to create a low-resource, Linux Virtual Machine to run the python script for the Discord bot twenty-four-seven, with little to no downtime.
- Read the documentation for Google Calendar API and Discord Development Documents Learned how to integrate two APIs, Google Calendar and Discord Bots, in one python project.

### Campus Mapper App Suite – Java, XML, Android Studio, Firebase Database and Authentication, HTML, CSS, JavaScript

- Helped develop a full-stack android application and website that allows students and staff to navigate around campus
- Developed and deployed the Backend authentication service and Database using Google Firebase and Java, allowing users to sign in securely.
- Built the Frontend UI for the Android App using XML and Android Studio
- Helped build the UI for the website in the form of an HTML drop-down menu

### Basic Bash Calculator – Bash, Unix Environment, WSL2

- Developed efficient code using Bash functions and loops, avoiding code duplicates and remaining clean and readable.
- Make sound decisions in the software development cycle to refactor code and increase efficiency while maintaining a consistent timeline.
- Utilized many new tools like WSL2, Remote Development, VS Code, IntelliJ, and a remote Linux workstation.

## Experience

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**Idea Lab Kids | Stouffville, ON**

*July 2022 – August 2022*

### STEM and Coding Instructor

- Taught children about fundamental STEM and coding topics and languages such as Java, Arduino, Scratch, and Electrical Engineering Concepts to develop and learn about STEM
- Communicate confidently with superiors, coworkers, and students to explain the topic and convey topics both in-depth and superficially
- Effectively prepared all lessons for the week and self-taught and researched topics well in advance to effectively teach students the week's subjects.