

# Michael Yang

613-600-1338 | [michaelzijunyang@gmail.com](mailto:michaelzijunyang@gmail.com) | [linkedin.com/in/michael-yang3](https://www.linkedin.com/in/michael-yang3) | <https://github.com/YangMichaelz>

## EDUCATION

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### Carleton University

Bachelor of Computer Science, Honours, Co-op Option

Ottawa, ON

Sept. 2023 – Apr 2028

**CGPA:** 10.9/12

**Relevant Coursework:** Abstract Data Types and Algorithms, Discrete Structures II, Introduction to Systems Programming, Introduction to Computer Science II

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, C++, JavaScript, HTML/CSS, Lua, C#

**Frameworks/Libraries:** React, Node.js, Flask, TailwindCSS, LangChain, Express.js, Vite, Java Swing

**Developer Tools:** Git, MongoDB, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Pinecone, Github

## AVAILABILITY

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Available for 4 or 8 months starting May 2025

## EXPERIENCE

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### Freelance AI Prompt Engineer

May 2024 – Present

DataAnnotation Tech

REMOTE

- Refine AI-generated responses to train, fine-tune, and improve the accuracy and relevance of LLMs
- Create complex prompts with detailed instructions involving code generation
- Analyze, debug, compare, and give feedback to code written in **Java, JavaScript, Python, C, C++, HTML/CSS** produced by LLMs according to instructions

## PROJECTS

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**AIsk** | JavaScript, React, LangChain, TailwindCSS, Pinecone, Express.js, MongoDB, Tavily, Node.js

- Developed a Healthcare chat bot within a **MERN Stack** web application allowing users to chat about healthcare-related topics
- Built a **Retrieval-Augmented Generation (RAG)** system using **LangChain**, **Tavily**, and **Pinecone** to enhance the chatbot's ability to provide accurate and context-aware responses
- Designed a simple, user-friendly UI using **React** and **TailwindCSS**, and built **RESTful APIs** with **Express.js** to enable efficient client-server communication
- Integrated Google **OAuth 2.0** for secure user authentication, and leveraged **MongoDB** for optimized storage and retrieval of user conversations
- Used **Pinecone's vector database** to perform **vector embeddings** and **vector searches**, enhancing the LLM's ability to generate accurate, context-enhanced responses

**Stable Cascade Discord Bot** | Python, Socket

- Developed a Discord bot in **Python** to generate high-quality images from user prompts
- Utilized a **queue** system to manage and process multiple user requests efficiently
- Integrated a diffusion model for image generation, and used **socket** programming to establish a connection between comfyUI API and Discord API

**2D Dungeon Game** | Java, Java Swing, Multithreading

- Developed a dungeon game using **Java** and **Java Swing**, featuring 6 levels and a variety of enemies
- Implemented **multi-threading** to reduce stuttering and improve the overall performance
- Designed a user-friendly graphical interface using **Java Swing**, enhancing user experience
- Applied **Object-Oriented Programming (OOP)** principles to structure game mechanics