**Daniel Liu**

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Description automatically generated (647) 300 3735 | [danielliu545@gmail.com](mailto:danielliu4@cmail.carleton.ca)  | https://github.com/DanielLiui

 https://portfolio-website-wyex.onrender.com/

**EDUCATION**

**Bachelor of Computer Science, AI and Machine Learning, Co-op** Sep. 2021 – present

Carleton University, Ottawa, ON

* Second year, 9.3/12 CGPA , B+
* Entrance scholarship (90%+ high school average)

**AVAILABILITY**

2025 and 2026: Anytime in-person or remote

**RELEVANT TECH STACK**

* Languages: Python/Java/C/C++/C#/Bash
* Web: HTML/CSS/JS/Node.js/Bootstrap/React/Flask/Django/Express
* AI: Langchain/Pytorch/Tensorflow/Roboflow/YoloV5
* Other: Git/Github/Figma/SQL/MongoDB

**PROJECTS**

* Medical Anomaly Scanner: Worked in a team using **HTML/CSS/JS/Flask/YOLOv5** to make an **AI** **website** that detects medical conditions in brain CT scans and spinal X-rays. Used Git to collaborate. Demo: [🔗](https://www.youtube.com/watch?v=8ZzDLK2BGv4)
* Animated chatbot: Used **HTML/CSS/JS/Flask** to make a website with an animated chatbot that users chat via text or orally. Website: [🔗](https://animated-chatbot-js.onrender.com/) (in progress)
* Dad Jokes website: Created a website using **React and Flask** that displays dad jokes with animated illustrations. Website: [🔗](https://dadjokes-vsci.onrender.com/)
* Robot programs: Programmed robots with several partners in **Webots,** a robot simulator, using **Java & Object-oriented programming**. Due to the privacy of the professor’s course materials, programs are available upon request.
* Medical app: Built a prototype medical Qt app using C++ & Object-oriented programming that guides RaDoTech device users to scan themselves and view a summary of the health of different parts of their body as well as recommendations. Demo: [🔗](https://www.youtube.com/watch?v=6wvdQDUlvG4)

**SKILLS AND EXPERIENCES**

**Communication and teamwork skills**

* Served customers as a cashier at Metro with efficiency, accuracy, and positivity
* Worked with teammates on Medical Anomaly Scanner website with a 1-week deadline under the supervision of a mentor.

**Written communication**

* Achieved As in university courses with written assessments. Such courses include Intro to Philosophy (A) and ‘People, Places, and Environments’ (A).

**Strong math foundation**

* Achieved As in university math courses like Linear Algebra (A) and Elementary Calculus 2 (A+)
* Achieved As in Intro to Artificial Intelligence and Intro to Machine Learning, which teach math for machine learning

**REFERENCES**

Binny (Metro front-end manager) | 613 526 5994

Sorina Petres (High school math teacher) | sorina.petres@tdsb.on.ca

Recommendation letter provided with resume

**RECORD OF GRADES**

Cumulative Grade Point Average (CGPA): 9.3/12, B+  
Number of Academic Terms Completed: 6

Co-op (4 Month) Work Terms Completed: 0

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| --- | --- | --- |
| **Course Number** | **Course Name** | **Letter Grade** |
| **Year 1** | | |
| COMP1405 | Intro to Computer Science 1 | B |
| COMP1406 | Intro to Computer Science 2 | B+ |
| COMP1805 | Discrete Structures | B |
| MATH1007 | Elementary Calculus 1 | B |
| MATH1104 | Linear Algebra | A |
| GEOG1010 | Global Environmental Systems | B- |
| GEOG1020 | People, Places, and Environments | A |
| ENGL1200 | Literature, Science, and Technology | B+ |
| CHIN1010 | Mandarin Chinese 1 | A |
| CHIN1020 | Mandarin Chinese 2 | A+ |
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| **Year 2** | | |
| COMP2801 | Intro to Robotics | B |
| COMP2401 | Intro to Systems Programming | B+ |
| COMP2402 | Abstract data structures & algorithms | B |
| COMP2404 | Intro to Software engineering | A |
| COMP2406 | Fundamentals of Web Applications | C- |
| COMP2804 | Discrete structures 2 | C- |
| STAT2507 | Intro to Statistical Modeling 1 | B+ |
| MATH2007 | Elementary Calculus 2 | A+ |
| COOP1000 | Co-op preparation | SAT |
| GEOG2200 | Global Connections | B- |
| GEOG2013 | Weather & Water | B |
| GEOG2014 | Earth’s surface | A |
| PHIL1000 | Intro to Philosophy | A |
| MUSI1002 | Issues in Popular Music | A |
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|  | **Year 3** |  |
| COMP3000 | Operating Systems | B |
| COMP3804 | Object-Oriented Software Engineering | A |
| COMP3005 | Database Management Systems | B+ |
| COMP3007 | Programming Paradigms | B+ |
| COMP3105 | Intro to Machine Learning | A |
| COMP3106 | Intro to Artificial Intelligence | A |
| COMP3804 | Design & Analysis of Algorithms 1 | C- |