Brian Chu

Computer Engineering Student

briankmchu@gmail.com

https://www.linkedin.com/in/brian-chu-b05932225/

EDUCATION

Bachelor of Applied Science
University of Toronto
Computer Engineering

Toronto, ON Expected in 2025

Cumulative GPA: 3.69/4.0

RELEVANT SKILLS

C
C++
C#
HTML
CSS
MSSQL
Neo4j
Python
.NET Framework
MATLAB
Verilog
ARM Assembly
ModelSim
Git
Fluent in English, Cantonese and Mandarin

CAREER OBJECTIVE

I am a third year computer engineering student who is versed in multiple software and hardware languages with great communication skills. I hope I can utilize and further my knowledge and make significant contributions in web developent, machine learning and software engineering.

Professional Experience

Software Engineer (May 2022 – Aug 2022)
Maxus International Systems, Vancouver

- Automated the processes for generating survey reports and anonymizing the company's database in MSSQL using C#, Neo4j , Telerik and .NET framework
- Co-designed and tested the backend and frontend of a large-scale website using C#, ASPX, Neo4j, MSSQL and .NET
- Created a customized object detection machine learning model with Yolov5 and Python for identifying construction materials
- Added new features for a proprietary imaging software using C#

Math Academic Mentor (May 2021–August 2021)
Engineering Student Outreach Office, University of Toronto, Toronto

- Led biweekly tutorial sessions for incoming engineering students

Accomplishments and Other Projects

Teaching Assistant for MAT188 (Linear Algebra) at the University of Toronto in the coming Fall Semester

Personal Website (May 2022 – June 2022)

- Used HTML, CSS and JavaScript to create a personal website

Geographic Information System (GIS) (Jan 2022 – April 2022)

- Co-designed the backend and frontend with C++, GTK and Glade
- Solved the travelling salesman problem with three opt, multi-start greedy algorithm and multi-threading (We ranked 8th out of 100 in the course)

Processor with extended capabilities (April 2022)

- Co-designed a processor in Verilog with supports subroutines, stacks, shift and rotate operations and implemented an ARM program which shifts bits in the LED light and HEX display in opposite directions on a DE1-SOC board

Received Dean's Honour List for All Completed Semesters at University of Toronto

University of Toronto Aerospace Team (Satellite Division) (Sep 2020 – May 2021)

- Researching for redundancy measures in the electrical systems to increase the reliability of the satellite project