BRIAN CHU | SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

I am a third year computer engineering student who is versed in multiple software and hardware languages with 4 months of software engineering internship experience. I hope I can make significant contributions in web development, machine learning and software engineering.

SKILLS

- ✓ C/C++
- ✓ C# .NET Framework
- ✓ Python
- ✓ HTML/CSS
- ✓ MSSQL
- ✓ Verilog
- ✓ Arm Assembly
- ✓ ModelSim
- ✓ Neo4j
- ✓ JSON
- ✓ MATLAB
- ✓ Git

PROFESSIONAL EXPERIENCE

Teaching Assistant in MAT188 (Linear Algebra)

University of Toronto | Sep 2022 - Present

- Holding tutorials and grading assignments

Software Engineer

Maxus International Systems | May 2022 - Aug 2022

- Automated the processes for generating survey reports and anonymizing the company's database in MSSQL using C#, JSON, Swagger API, Neo4j , Telerik and .NET framework
- Co-designed and tested the backend and frontend of a large-scale website using C#, ASPX, Neo4j, MSSQL, .NET
- Developed an object detection machine learning solution with Pytorch and Python for identifying construction materials
- Added new features for an imaging software using C# and WPF

PROJECTS AND ACCOMPLISHMENTS

Geographic Information System in ECE297 (Software and Communication) (Jan 2022 – April 2022)

- Co-designed the backend and frontend with C++, GTK and Glade
- Developed 3-Opt and multi-start greedy based heuristics for the travelling salesman problem
- Our heuristic was ranked 8th out of 99 teams

Processor with extended capabilities in ECE243 (Computer Organization) (April 2022)

- Co-designed a processor in Verilog which supports subroutines, stacks, shift and rotate

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

EDUCATION

2020 - 2025 | University of Toronto GPA: 3.69

Bachelor of Applied Science - Computer Engineering (Minoring in Artificial Intelligence)