

FLORIA FANG ZHANG

Computer Engineering Student

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EDUCATION

UNIVERSITY OF TORONTO

Bachelor of Applied Science & Engineering, GPA 3.73/4

Toronto, Canada

2020-2025

PROFESSIONAL EXPERIENCE

INTEL CORPORATION

Software Engineering Intern

Toronto, Canada

May 2023-August 2024

- Developed and implemented 10+ new features for a **Python, Verilog, and YAML-based** project, focusing on increasing tool capabilities and improving performance.
- Led a four person team to develop, benchmark, and launch 2 releases of the Random Design Generator tool.
- Engineered 10+ automation scripts that optimized data analysis, data extraction, and testing procedures, streamlining workflow and resulting in faster failure investigation times.
- Monitored key benchmarking metrics and conducted investigations on anomalies and failures, leading to actionable insights that improved system performance and reliability.

ARIA

Cofounder and Chief Technical Officer

Toronto, Canada

May 2022-September 2022

- Executed backend development of a mobile app using **Python, Django, and MongoDB** (NoSQL Database)
- Conducted research on both technical (backend frameworks and databases) and business (data monetization, customer segmentation) topics
- Prepared and developed a thorough business plan and pitch presentation for investors

IEEE UNIVERSITY OF TORONTO BRANCH

Vice Chair

Toronto, Canada

March 2021-April 2023

- Led the University of Toronto branch of IEEE (team of 50+) to plan and host all hackathons and other events.
- Management of technical workshops for **Arduino, Django, React, and PCB Design**.
- Organized and hosted NewHacks (hackathon) and MakeUofT (makeathon) for 700+ participants

UNIVERSITY OF TORONTO AEROSPACE TEAM

Electrical Power Systems Member

Toronto, Canada

September 2020-December 2021

- Conducted **research** on electromagnetic interference and protection circuitry for satellite power systems.
- Used Altium to **design schematics** and **create PCB boards** to implement protection of downstream devices from voltage and current faults.
- Led Phase 1 design of EFuse and Load Switches for the FINCH Mission (cube satellite).

PROJECTS

HAFWAY THERE MAPS

January 2022-May 2022

- Applied **API Implementation** in C++ to extract from given databases
- Increased performance and efficiency of code through employment of **data structures** (hash maps, multimaps, vectors, sets), **multithreading**, and **multiresolution**
- Created a **graphical user interface** to display an interactive map
- Implemented **Dijkstra's** and **A* Algorithm** for path finding functions
- Solved the Travelling Salesman Problem using **Greedy, Simulated Annealing, and Genetic Algorithm**

ADDITIONAL SKILLS

- Technical Skills: Python, C++, C, PHP, JavaScript, YAML, Assembly, MATLAB, Verilog, Linux, Git
- Languages: English (Native), Spanish (Native), Cantonese (Working), Mandarin (Working)