# Yiming Zhang

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#### Education

### Bachelor of Applied Science and Engineering

Sept 2020 - May 2025

University of Toronto

Toronto, ON

Major: Čomputer Engineering

Relevant Courses: Algorithms & Data Structures, Communication and Design, Computer Networks, Programming Fundamentals, Computer Organization, Operating Systems

### Experience

### System on Chip Digital Verification Intern

May 2023 - Aug 2024

 $Alphawave\ Semi$ 

Toronto, ON

- Enhanced team infrastructure with Python, optimizing Jenkins pipelines, pre-commit hooks, and automated error handling, reducing outbreak time by 90%.
- Developed a full-stack system using Python (Flask), MongoDB, and HTML/JS, saving developers 20 minutes daily.
- Performed register bit bash testing via APB access and sanity tests, aiding SoC design verification.

### Software Developer Intern

May 2022 - Sept 2022

Sophoton

Shanghai, China

- Improved an existing plotting tool by enhancing label clarity with Matplotlib, increasing data readability by 25%.
- Designed software using Tkinter to help designers visualize chips in a self-driven manner.
- Delivered a final presentation to the company, leading to 100% adoption of the design tool.

# **Projects**

#### Software Developer — Software Design and Communication

Jan 2022 - Apr 2022

University of Toronto

Toronto, ON

- Developed a C++ program using OSM (OpenStreetMap) to visualize and draw geographical locations.
- Collaborated in a team of 3, utilizing GIT for version control and implementing pathfinding algorithms such as Dijkstra's and A\*.

### Processor Design — Computer Organization

Apr 2022

University of Toronto

Toronto, ON

- Utilized Verilog to design a 16-bit processor with ARM-like instructions including add, sub, and conditional branch.
- Tested the design on FPGA using Quartus with multiple test cases.

# Leadership Experience

# Team Leader — Engineering Strategies and Practices II

Jan 2021 - Apr 2021

University of Toronto

Toronto, ON

- Led a team of 5 to propose a design to solve e-cargo cycle parking issues.
- Created and maintained a Gantt chart for project planning and ensured effective communication.

# Team Leader — Sociology 12 Service-Learning Project

Sep 2019 - Oct 2019

Jilin, China

Jilin, China

- Directed a group of 17, organizing the project and leading practice and performance sessions.

### Skills

- Programming Languages: Python, C++, C, Verilog, ARM Assembly
- Tools: Jenkins, MATLAB, Quartus, ModelSim
- Other: Git, MongoDB, Flask, HTML/JS