

Chuyue Zhang

Computer Engineer

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Website:

Education

- **University of Toronto/Bachelor** 2019, 9 - now
Cumulative GPA: 3.80 (2019-2022) Annual GPA: 3.91 (2020-2021)
Dean's Honor List: 4 semesters
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Skills

- **Languages:** C/C++, Python, Rust, JavaScript, HTML5&CSS3, JSON, MySQL
 - **Other Useful Skills:** Quartus, Git, Perforce, OpenGL, Unity, Pytorch, CUDA
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Projects

- **EmoNet (Pytorch & ResNet & AlexNet)**
 - A deep learning project that can recognize the facial expression in the webcam and generate corresponding emoji. The project can be used in online meetings ([Team80_Final_Deliverable](#)).
 - The model has a final training accuracy of 92.34% and validation accuracy of 58.67%. The final training F1 score is 0.75 and the validation F1 score is 0.59. Meanwhile, it achieves a 62% accuracy on the extra dataset, which matches our expectation of testing accuracy.
 - **MindVoice (HTML5 & CSS3 & JavaScript & PHP & MySQL)**
 - A social media platform prototype in which users can share their lives.
 - Users can upload contents via editing in the popup window.
 - Users can view other users' content in the waterfall view of the "Explore" page. Users can also tap the "Like" button to support it.
 - Users can follow other users and have chats on the "Message" page.
 - **Easy Go Map (C++)**
 - An offline GIS software running on Linux using OpenStreetMapAPI.
 - Find the fastest path between two points on the map using the Dijkstra algorithm and visualize it by giving navigation routes and instructions.
 - The team got in the top 15% of the leaderboard on solving the NP-Hard Traveling Salesman Problem via greedy, 2-opt, and simulated annealing.
 - **Battle of Balls (C & ArmV7 DE1-Soc)**
 - A single player game implementing NPC moving and interacting AIs
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Experience

- **Intel Corp./Software Engineer** 2022, 5-2023, 9