Chuyue Zhang

Computer Engineer

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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

Skills

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

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

Experience

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