
Ding (Eric) Ding

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EDUCATION

University of Michigan

B.S., Computer Science, GPA. 4.00, Dean's List, Dual Degree Program

Ann Arbor, MI, United States

Apr. 2024

Shanghai Jiao Tong University

B.S., Electrical and Computer Engineering, GPA. 3.78

Shanghai, China

Aug. 2024

Main Courses Taken

Data Structures and Algorithm, Introduction to Machine Learning, Computer Vision, Computer Science Fundamentals, Computer Organization, Operating System, Embedded System Design, Electronic Circuits, Signals and Systems, Logic Design, Electromagnetics, Quantum Electromagnetics, Introduction to Aerospace Engineering

SKILLS

Programming C, C++, Python, PyTorch, Matlab, R, R Shiny, Mathematica, Elm, Verilog, HTML, CSS, JavaScript, \LaTeX , Shell, ARM assembly, OpenGL, Multithreading, Object Oriented Programming, Functional Programming

OS and Development Tools Linux Ubuntu (running on self-built PC), macOS, Windows, Docker, Git, GDB, Valgrind, Shell, VSCode, STM32CubeIDE, XCode, Icarus Verilog

Simulation and Modelling Catia, Matlab, Mathematica, Pspice, Proteus, Vivado

PROJECT, RESEARCH, AND WORK EXPERIENCE

AI Safety Researcher

Sep. 2022 - Dec. 2022

Michigan AI Safety Initiative, University of Michigan

Ann Arbor, Michigan, United States

- Participated the student-led seminar focused on the problem of aligning advanced AI to follow human values
- Built a Q-learning Reinforcement Learning model in Python to automate a taxi cab in gym playground
- Explored specification gaming and alignment issues in Reinforcement Learning

Electrical Subteam Engineer

Mar. 2021 - Aug. 2022

Shanghai Jiao Tong University Formula Student Racing Team

Shanghai, China

- Designed electrical and electronic components and subsystems for formula student racing cars using Catia
- Optimized electrical wiring and ECU design from previous projects to build faster and more reliable racing cars
- Won national second prize of 2021 Formula Student Combustion China as a team

Leader of China May Day Mathematical Contest in Modeling Project Team

May 2022

UM-SJTU Joint Institute, Shanghai Jiao Tong University

Shanghai, China

- Led a team to build a gray comprehensive evaluation model and a neural network prediction model with Softmax classifier in Python and Matlab, based on a dataset of a city's fire alarm systems (various sensors' false alarm rates)
- Evaluated fire alarm systems of different districts in the city, and predicted the credibility of fire alarm signals
- Our paper won the first prize of 2022 China May Day Mathematical Contest in Modeling

Light Strider Web Game Developer link: ericding.github.io/light_strider/

Jun. 2021 - Aug. 2021

UM-SJTU Joint Institute, Shanghai Jiao Tong University

Shanghai, China

- Developed *Light Strider* in a group of four, using Elm, a functional programming frontend language
- Designed main game architecture, implemented graph algorithms, and built UI elements
- Received *Certificate of the Interns Choice* award from course instructor

GRANTS AND AWARDS

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| The Tang Junyuan Scholarship Nominee | Aug. 2022 |
| Shanghai Jiao Tong University Pu Yuan Future Talent Program Scholarship | Jan. 2022 |
| Shanghai Jiao Tong University Undergraduate Excellent Scholarship | Dec. 2021 |
| Second Prize of Shanghai 2021 CUMCM Mathematical Contest in Modeling | Dec. 2021 |
| Shanghai Jiao Tong University Merit Student | Nov. 2021 |