

Wei Ji Li

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Ann Arbor, MI 48105

EDUCATION

- **University of Michigan** Ann Arbor, MI
Bachelor of Science in Computer Science & Data Science **GPA: 4.0** Expected May 2022
 - **Relevant Courses:** Algorithm(EECS 281), Computer Organization(EECS 370), Data Structures(EECS 280), Linear Algebra(MATH 217), Probability(MATH 425)
 - **Work:** Kiluk Tutor (one-on-one) for Linear Algebra (MATH 217) at Math Department
- **Rensselaer Polytechnic Institute** Troy, NY
Bachelor of Science in Computer Science **GPA: 3.96(Dean's Honor List)** Aug 2018 – May 2019 (Transfer Out)
 - **Relevant Courses:** Data Structures, Discrete Mathematics, Computer Organization, Multivariable Calculus
 - **Work:** Undergraduate Tutor for Data Structures at the Advising & Learning Assistance Center

EXPERIENCE

- **Adversarial ML with Audio Speech Recognition** Ann Arbor, MI
Undergraduate Research Assistant May 2020 – Present
 - **Machine Learning:** Conduct research in Adversarial Machine Learning. Research focuses on finding efficient methods to attack audio speech recognition model with ML. Advised by Prof. Atul Prakash.
- **Crossmod** Ann Arbor, MI
Undergraduate Research Assistant Sep 2019 – Present
 - **Crossmod is a system that could detect toxic incoming comments on Reddit using ML models.**
 - **Machine Learning:** Deployed the Crossmod to AWS Cloud Server; Built a database and collecting more data; Implemented dynamic re-training for high accuracy; Implemented multi-thread prediction for high efficiency; Packaged the whole system as an open API. It is now working effectively on several subreddits like r/Futurology; Advised by Prof. Eric Gilbert
- **Ant Financial (Alibaba Group)** Hangzhou, China
Software Engineering Intern Jul 2019 – Aug 2019
 - **Machine Learning:** Worked on a Machine Learning Platform(PAI); Designed an image classification algorithm with deep learning and built the whole workflow for running on GPU; Packaged the algorithm as a template for other people to use; Wrote Python SDK for users to conveniently build ML prediction models.
 - **Full-stack Web Development:** Built an admin management page for the Machine Learning Platform(PAI) to monitor the usages and manage the algorithm templates with ReactJS Front-end and Java Back-end.
- **Submittity** Troy, NY
Open Source Developer Aug 2018 – May 2019
 - **Submittity is a programming assignment submission system; Used for all CS courses at RPI; Could auto-grade and analyze students' programming homework**
 - **Full-stack Web Development:** Achieved features such as group assignment submission and grade analysis; Maintained the system and fixed bugs with PHP Back-end.

SELECTED PROJECTS

- **Smart Library System:** A face-recognition system for High School Library; Achieved functionality of borrowing, returning books and validating students; Based on Python; Improved the efficiency and accuracy to 95%+.
- **PONG:** A redesigned and upgraded PONG video game; Built the game with more modes, features and visual effects; Based on JavaScript; Won the First Prize in the final competition at UCLA summer program.
- **AR Clock:** A Time-Management Web app for smartphone; Helped people tracked their time spent on different tasks in a day, a month and a year; Showed the overall statistics for people with AR.

SKILLS

- **Programming Languages:** C++(proficient), Python(proficient), Java(proficient), JavaScript, C, PHP, Swift
- **Technical Skills:** Tensorflow, Pytorch, Keras, AWS, ReactJS, Bootstrap, SQL Databases
- **Languages:** English, Chinese(Mandarin)