Amy Liu

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EDUCATION

University of Michigan | GPA: 4.0/4.0 — Ann Arbor, MI
Bachelor of Science in Computer Science & Robotics — *Aug. 2024 – May 2028*
Relevant Coursework: Discrete Mathematics, Object-Oriented Programming

Michigan State University | GPA: 4.0/4.0 — East Lansing, MI
Dual Enrollment — *Aug. 2023 – May 2024*
Relevant Coursework: Linear Algebra, Differential Equations, Multivariable Calculus

Okemos High School | GPA: 4.0/4.0 — Okemos, MI
High School Diploma — *Aug. 2020 – May 2024*

EXPERIENCE

Product Studio Engineer — Sep. 2024 – Present
V1@Michigan — *Ann Arbor, MI*
- One of 14/150+ students chosen for V1's Product Studio Program, an initiative to build impactful software products for the community.

Tang Laboratory Intern — Oct. 2023 – Mar. 2024
Michigan State University — *East Lansing, MI*
- Conducted AI research with Prof. Jiliang Tang on detecting text generated by Large Language Models.
- Designed and collected a comprehensive public dataset *HC-Var (**H**uman **C**hatGPT Texts with **Var**iety)* with 140,000+ samples of AI and human-generated texts for future research.
- Trained 10+ machine learning models for text detection in different tasks and domains.

Okemos Policy Debate Varsity Captain — Aug. 2019 – May 2024
Okemos High School — *Okemos, MI*
- Attended 10+ National Policy Debate tournaments per year. Ranked 1st in the state and top 100 in the US by National Speech and Debate Association (NSDA) points.
- Helped coach 40+ individual middle school debaters weekly for 3 years. Gave demo debates, taught lessons on each year's topic, and judged practice debates by writing ballots.
- Notable awards: State Champions (2021, 2023), 1st/82 Speaker at Harvard JVCX, NSDA Qualifiers (2020-2023).

Computer Science Club — Sep. 2020 – Apr. 2024
Okemos High School — *Okemos, MI*
- Organized first ACSL competition in high school with 10+ participants. More than half qualified to Nationals.
- Inaugurated the CS Seminar Series and invited 5 guest speakers to present their research for high school students. More than doubled membership to 20+ during my term as president.

PUBLICATIONS

1. **On the Generalization of Training-based ChatGPT Detection Methods**
   Han Xu, Jie Ren, Pengfei He, Shenglai Zeng, Yingqian Cui, Amy Liu, Hui Liu, Jiliang Tang. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*.

PROJECTS

MQueue | *Python, Next.js, FastAPI, Twilio* — Oct. 2024 – Present
- Developing a queuing app for the University of Michigan's North Campus Recreation Building facilities – badminton, volleyball, and tennis courts.
- Currently working on MVP with 30+ interested and a scheduled demo.

RecallRadar | *Python, Flask, React* — Sep. 2024
- Used the FDA's Recall API to develop an email notification system to update users of ongoing or resolved food recalls in their area.

SKILLS

Technical: Java, Python, C++, experience in convolutional neural networks and machine learning, Latex documents
Languages: English (fluent), Mandarin (fluent), Spanish (elementary proficiency)
Interests: Reading, baking, travel, mahjong, crochet, skateboarding, violin