Keegan Kipke

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EDUCATION

University of Michigan   Expected graduation April 2025
B.S. in Computer Science, Minor in Sustainability
- GPA: 3.85

Relevant Coursework: Calculus, Discrete Math, Data Structures & Algorithms

EXPERIENCE

University of Michigan Department of Computer Science   July 2023 - Present
Instructional Aide, EECS 183 | Ann Arbor, Michigan
- Created powerpoint presentations with relevant lecture material and taught ~25 students during weekly labs.
- Hosted 4 hours of in-person and remote office hours per week and answered student questions on Piazza.
- Collaborated with 40-person teaching team to write, test, and grade exams for a class of ~1300 students.

Coding and Physician Reimbursement Analysts, Inc   February 2023 - Present
Medical Coding Database Specialist | Melbourne, FL
- Updated and maintained medical coding databases with 1000s of entries using Python.
- Created files for use by Expert Witnesses in medical coding court cases.

University of Michigan School of Information   January 2023 - July 2023
Renew CS Mentor | Ann Arbor, MI
- Held 1-on-1 and group tutoring sessions for underrepresented students in computer science.
- Hosted monthly group sessions of ~30 students for special topics in computer science.

NeuroNexus Technologies   May 2022 - July 2022
Software Engineering Intern | Ann Arbor, MI
- Converted neural information from highly specialized hardware between data management systems.
- Built software product using Python, Go, C++, Google protobufs, and Git.
- Learned about cutting edge biotechnology and different ways to represent neural information.

EXTRACURRICULARS

Theta Alpha Psi Professional Sustainability Fraternity   September 2022 - Present
University of Michigan | Ann Arbor, MI
- Participated in community service, activism, and outreach to spread sustainability in local community.
- Attended weekly meetings to learn about, discuss, and practice sustainability topics.

Tau Epsilon Kappa Professional Technology Fraternity   September 2022 - Present
University of Michigan | Ann Arbor, MI
- Served on Technical Development Committee to build website and provide technical education for members.
- Participated in professional development workshops, volunteering events, and networking panels.

HONORS AND AWARDS

University Honors (3x)
Climate Hack.AI Finalist
*Finalist for UM in **international data science competition**. Three competitors from the top 25 universities in the world advanced to finals, a four day challenge in Boston and London to design the **best machine learning model**. The challenge was to create a model to predict cloud cover over a solar grid, which reduces gas backup generator usage, thereby mitigating carbon emissions.*
William J. Branstrom Freshman Prize
*Awarded to first year undergraduate students whose academic achievement places them in the **upper five percent of the class**.*

SKILLS

- **Languages:** C++, C, Python, HTML, Object-Oriented Programming, Dynamic Programming
- **Tools:** Git, XCode, VSCode, Jupyter, G Suite, Microsoft Office