

Hannah Niswander

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EDUCATION

University of Michigan

Expected Graduation - May 2024

- **Major:** Computer Science, B.S.
- **Minor:** Sociocultural Anthropology
- **GPA:** 3.8/4.0
- **Coursework:** Web Systems, Computer Organization, Data Structures and Algorithms, Discrete Mathematics, Introductions to Statistics and Data Analysis

WORK EXPERIENCE

EECS 280: Programming and Introductory Data Structures

Ann Arbor, MI

Instructional Aide, Student Coach, and Outreach Czar

August 2021 - April 2022

- Taught thirty undergraduate students by utilizing a wide range of instructional approaches
- Introduced students to fundamental computer science concepts including Big-O notation, linked lists, machine learning, recursion, dynamic resource management, stacks and queues, and more
- Helped structure course by drafting and grading exams, creating assignments, and hosting four hours of office hours per week for a course with over 1300 students
- Organized one-on-one meetings with students to provide coaching and supplemental materials
- Served as the outreach coordinator responsible for reaching out to students struggling in the course and providing additional guidance for the course and their educational career

SOFTWARE PROJECTS

Github: github.com/hniswand

Personal Website: <https://hniswand.github.io>

- Developed a website using CSS, HTML, parallax scrolling, and responsive web design

Piazza Machine Learning

- Designed and developed a Naive Bayes algorithm using an underlying binary search tree to categorize class Piazza posts

Log Manager Program

- Implemented a program that utilized multiple interacting data structures to construct an excerpt list from an error-handling log file
- Evaluated the runtime and storage tradeoffs of different data types for an optimal solution

EXTRACURRICULAR ACTIVITIES

Inclusive Teaching Training for Graduate and Undergraduate Student Instructors

2021 - 2022

- Completed introductory and advanced workshops which taught skills and techniques aimed at improving capabilities as a student teacher and creating a healthy learning environment

Girls in Electrical Engineering and Computer Science (GEECS)

2019 - present

- Participated in the outreach committee, with the aim to encourage and support women interested in electrical engineering and computer science

Michigan Hackers Club

2021 - 2021

- Participated in collaborative coding projects with the goal of expanding programming skills beyond the classroom; worked as a member of the iOS development team

SKILLS

Software: (proficient): C++, CSS, HTML, Python, Git (familiar): C, R, Java, AWS