

RETT A. GRAHAM

rettg@umich.edu | (231) 735-6310 | [linkedin.com/in/rettg](https://www.linkedin.com/in/rettg)

EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Relevant Courses: Web Systems (Python & ReactJS), Database Management Systems (SQL), Data Structures and Algorithms (C++)

Ann Arbor, MI

Aug 2020-Dec 2023

Northwestern Michigan College

Associate of Science and Arts

- Phi Theta Kappa Honor Society, *Member*

Traverse City, MI

Aug 2018-May 2020

Dec 2018-Current

EXPERIENCE

Entrepreneurships Leadership Program (ELP 8)

Cohort Member

Ann Arbor, MI

Oct 2022-Current

- Learning leadership, managerial, and functional skills during our in-class activities, from our matched mentors, and our excellent professors who own a start-up company.

NOME Laboratory (University of Michigan, College of Engineering)

Research Assistant

Ann Arbor, MI

Feb 2021-Jan 2022

- Worked on an image-processing algorithm in Python to automate scale-bar image data extraction for future lab implantations while supporting a database of over 250+ scale-bar images
- Assisted in a machine learning algorithm for automating labels in nuclear cavity images by helping develop small components like, generating cavity masks of distorted cavity images

MPowered Entrepreneurship (Flagship Student Entrepreneurship Org.)

Director of Innovation Challenge

Ann Arbor, MI

Apr 2022-Oct 2022

- Coordinate with Center for Entrepreneurship Program Director to put on 100+ person Innovation Challenge event for students from all 19 colleges at the University of Michigan
- Conceptualize and design creative flier to market event throughout all Center for Entrepreneurship marketing channels across the university

PROJECTS

Sorting Visualizer – *Personal Project*

- Implemented 6 core sorting algorithms that visualizes elements from an array being sorted in real-time using JavaScript and HTML & CSS. Features implemented can modify size and elements in array, change sorting speed, and more.

Pathfinding Visualizer – *Personal Project*

- Implemented depth-first-search pathfinding algorithm that is visualized on a grid. Includes features such as barriers and an option for adjusting start and end points that can be preset. While the program runs it finds the shortest path from both points and displays the results to the user.

Instagram Clone – *Course Project*

- Project in my Web Systems course that used HTML & CSS, Python, SQL, and ReactJS to make a dynamic client-side instagram clone. Features include like-buttons, navigation-buttons, and a comment bar that updates instantly on interaction, an infinite scroll mechanic, and more.

SKILLS

Languages: C++, C#, HTML, CSS, JavaScript, Python, SQL, ReactJS

Engines & Technologies: Unity, Autodesk360, Opencv, Matplotlib, PIL, NumPy