

Shiham Chowdhury

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EDUCATION

University of Michigan

Bachelor of Science in Electrical Engineering

August 2022 - May 2026

Ann Arbor, MI

WORK EXPERIENCE

Orlans Associates Intern

June 2022 - present

- Managed title deeds/claims and foreclosure cases
- Contributed to about 1000 of over 10,000 files done as a team over the summer

PROJECTS

Machine Learning

[Link to Demo](#)

- Built an algorithm in C++ that learns sets of words to predict the chance of a specific word appearing
- Used learning algorithms to register words as pair types via user input with a corresponding label
- Used binary search trees to parse learned data and make predictions based on log-probability scores

Euchre Game

[Link to Demo](#)

- Built a playable game of euchre in C++ that can support up to 4 players (Human or CPU)
- Constructed a deck using a Pack object consisting of 52 defined Card objects
- Used an abstract Player class to define both a HumanPlayer class (that takes player input) and a SimplePlayer class (CPU that plays cards depending on what the situation is).

Image Resizer

[Link to Demo](#)

- Built an image editor in C++ that can modify an image based on user input
- Used definitions of Pixel and Matrix class to create an Image class representing the inputted image
- Modified Pixel matrices to rotate, resize and change RGB values of individual pixels

Temperature-Controlled Fan

[Link to Demo](#)

- Built a device that controls a DC-motor-connected fan based on temperature recorded by DHT11
- Used LCD to display temperature/humidity and ultrasonic sensor to control fan based on proximity

Personal Portfolio Website

[Link to Demo](#)

- Built a website in React that includes an interactive navbar, email form and mobile-friendly view

TECHNICAL SKILLS

- **Languages:** Java, Javascript, C++, Python, MATLAB
- **Developer Tools:** Visual Studio, Jupyter Notebook, LTSpice