

## Vivien Lin

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### Education:

**University of Michigan, College of Engineering** - Ann Arbor, MI

Bachelor of Science in Engineering in Computer Engineering

Fall 2022—Spring 2026

**GPA:** 3.975/4.0

**Classes:** Programming and Intro Data Structures, Introduction to Differential Equations, Linear Algebra, Introduction to Electric Circuits, and Introduction to Logic Design

**Awards:** William J. Brainstorm Prize, University Honors, Dean's Honor

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### Projects:

#### Euchre Project

- Implemented classes of abstract data types in C++ that supports human players and AI players with simple strategies
- Designed an interactive command line interface to simulate a euchre game that shuffles and deals cards, follows euchre rules, and updates scoring

#### Machine Learning Project

- Utilized dynamic memory, templates, and recursion to organize a variety of data into a binary search tree
- Designed a machine learning model in C++ that trains a classifier which takes in a labeled dataset and use the information to make statistical analysis and predict labels for unknown content

#### Computer Vision Project

- Built an image resizing program using matrix representation of images and a seam-carving algorithm
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### Experience:

**Mechanical Engineering Undergraduate Machine Shop** | University of Michigan

Tool Crib Attendant, Sept. 2023 - present

- Trained in operation of various machines, including lathes, milling machines, and waterjet, to provide support to students on basic operations
- Managed issuance of equipment to maintain a well organized tool crib
- Oversaw the check in and check out of students from the machine shop and ensured a clean workspace

Chinatown Cafe, LaFollette, TN

Cashier, summer breaks from 2018—2021

- Memorized the menu in several languages to efficiently communicate between customers and restaurant staffs
  - Answered phone calls, processed incoming orders, and packed to-go orders in take out containers
  - Operated cash register and credit card machines to complete customer purchase
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### Activities:

**Student Panel** | University of Michigan

Student leader for CHEM 130, Sept. 2022—Dec. 2022

- Created surveys and collected feedbacks from students enrolled in CHEM 130
- Presented survey results during meetings with professors for potential course's enhancement