

# Nadin Agour

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## EDUCATION

**Washtenaw Community College**, Associate in Science

August 2023

Pre-Engineering Science

**University of Michigan**, Bachelor's in Engineering

December 2025

Major in Computer Science with minor in User Experience Design

## SKILLS AND CERTIFICATES

**Programming:** C++, C, Python

**Languages:** English, Arabic, Turkish

**Frameworks:** VS Code, Github

**Software:** Microsoft365, Google apps, Adobe

**Web Development:** CSS, HTML

## CLUBS/ORGANIZATIONS HOSTED

*Washtenaw Community College*

**President, Women in STEM club**

August 2022 – Current

- Spearheaded a virtual event recording interviews of twenty subject matter experts in various fields of STEM to motivate, encourage and inspire members to explore STEM fields; broadcasted the recording to 40 members.
- Recruited student members continuously through hosting tables, digital/print marketing campaigns, and hosted events.
- Designing a 'STEM Room' event to aid individuals in exploring careers in STEM.
- Inspired members to explore STEM fields and opportunities through readings of *50 Fearless pioneers who changed the world* book.

**President, Mathematics Club**

August 2022 – Current

- Discussing math-related topics and invited different math class instructors to discuss difficult math problems.
- Created events encouraging motivation, encouragement, and inspiration.

## ACADEMIC EXPERIENCE

**Python Projects:**

- *Maze Game:*
  - Scripted functions for players to bypass various monsters to complete the game; special foods increase player score.
- *Fighter Game:*
  - Programmed *fighters to move in all directions to catch the player; player mission – successfully reach the diamond without capture.*

**Machine Problems Using C++:**

- *The ATM Transaction Validator:*
  - Designed a program to print checking account balance, transaction type code: (W)ithdraw, (D)eposit, and (R)eport, and transaction amount of a customer account.
- *Words Finder Game:*
  - Created a program that reads an eight-by-eight table of letters, fills into a 2-dim array of size eight by eight, the correct words that need to be found, and finds the correct English words in the table. After finding a correct word, the program prints the location (row, column) and direction of the correct word given to look for horizontal (left to right), vertical (top, down), or diagonal (top-left), or it should indicate that the word could not be found.
- *Spelling Correction System:*
  - Designed a program that reads words from a file and detects four types of errors: Character substitution, transposition, deletion, and insertion. Then, prints out all the incorrect words with the errors detected.

## Projects using C++:

- **Resize Image:**
  - Implemented a program that uses smart seam carving using mathematical formulas to dynamically resize pictures with extensive use of pointers to maintain efficient memory usage.
- **Euchre Game:**
  - Designed a C++ interface that allows users to play a game of euchre with simulated players executing moves via a programmed strategy through object-oriented programming.
  - Devised and implemented a robot opponent with intelligent strategies to compete either with other bots or with human players.
  - Utilized polymorphism and abstraction concepts to design the application partitioning the code into a card class, a deck class, a player class, and a euchre game class.
- **Web Backend:**
  - Created a queue that contains items stored in first-in-first-out order: the first item to be added is also the first one to be removed.
  - Implemented this queue using a linked list that allowed insertion and removal at both ends, allowing items to be added at one end and removed at the other.
- **Piazza Classifier:**
  - Implemented a binary search tree and utilized the map abstract data type to construct a data container.
  - Developed a program that employs this container to identify new posts and display any pertinent posts associated with them.

## PROFESSIONAL EXPERIENCE

### *University of Michigan*

#### **Program Advisor – College of Engineering**

June 2023 - Current

- Assisted with in-class activities delivered by the instructors.
- Worked with small groups of high school students to complete their projects and expand their understanding of the content.
- Taught math and science, engineering concepts, and app development classes.
- Developed and implemented comprehensive program strategies and initiatives to support the academic and personal development of the participants.
- Collaborated with faculty, staff, and administrators to ensure program alignment with institutional goals.

#### **Program Specialist/Assistant – ICPSR**

June 2023 – December 2023

- Helped instructors with any issue with the device that controls every projector and student monitor.
- Led events for participants and instructors of the summer program.
- Presented SEOs modification suggestions for the ICPSR website to 50+ staff members.
- Explored AI platforms; ChatGPT, CoPilot, Google AI, Synthesia, Jasper.

#### **Front Desk Assistant – Advising and Success Coaching**

December 2022 – July 2023

- Supported 14 advisors and five success coaches providing administrative support; answering phones, directing individuals to appropriate departments, responding to emails, returning voicemails, etc.
- Increased new students' knowledge by providing answers to their concerns, and scheduling appointments with the appropriate advisor.
- Aided two students with schedule and intake information to receive personal counseling services.
- Promoted and educated students regarding college resources by creating flyers about new events.
- Increased confidentiality and office efficiency by reorganizing the storage process.

#### **Student Ambassador**

August 2022 – December 2022

- Provided campus and group tours to hundreds of prospective students and their parents increasing student enrollment.
- Conducted virtual and in-person new student orientations; served as a point of contact for students for navigating campus resources and provided referrals appropriately.
- Represented the College at on-campus and off-campus events increasing community knowledge of college programs.