Nadin Agour

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EDUCATION

Washtenaw Community College, Associate in Science,   August 2023
Pre-Engineering Science Transfer

University of Michigan, Bachelor's in Engineering,   December 2025
Major in Computer Science and Minor in User Experience Design

SKILLS AND CERTIFICATES

Programming: C++, C, Python   **Languages**: Trilingual 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 – Present
- 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 – Present
- 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 & CMU SC Academy:
- *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.
  - Added conditions using ifelse logic. o Calculated new balance depending on the transaction type that was selected using designed function and printed to a protected file.
- *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 Similar to the Search Engine Google:*
  - 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.
- *Videos and Customers Information:*
  - Displayed a menu that includes printing a list of all videos' names owned by the Movie Rent Video Store, a list of all customers, a list of rental information by a video title including the customer information. Depending on the user's input, the program prints the needed information.

Projects using C++:

- *Resize Images:*
    - 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. o 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 – Engineering OnRamp   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 1implemented 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 - InterUniversity Consortium for Political and Social Research   June 2023 - August 2023
- Helped instructors with any issue with the device that controls every projector and student monitor.
- Leaded 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. *Washtenaw Community College*

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.