Nadin Agour

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EDUCATION

University of Michigan, *Bachelor's in Engineering*   August 2023 - Current
 Major: Computer Science   **Minor:** User Experience Design
 Relevant coursework: Data Structures/Algorithm, Human-Centered Software, Discrete Math I & II, Bldg DataDriven Application, Database Management System, Computer Organization.
Washtenaw Community College, *Associate in Pre-Engineering Science*   July 2022 - August 2023

SKILLS AND CERTIFICATES

Programming: C++, C, Python, SQL   **Languages:** English, Arabic, Turkish
Frameworks: VS Code, X Code, GitHub   **Software:** Microsoft365, Google apps, Adobe
Web Development: CSS, HTML

ACADEMIC EXPERIENCE

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.
- Piazza Classifier:
  - Implemented a binary search tree and utilized the map abstract data type to construct a data container to identify new posts and display any pertinent posts associated with them.
- Mine Escape:
  - Developed efficient data structures and algorithms using priority queues.
  - Implemented an interface that used inheritance and basic dynamic polymorphism.
- SillyQL:
  - Implemented a program to emulate a basic relational database with an interface based on a subset of a SQL language.

PROFESSIONAL EXPERIENCE

CentralAcademy
Substitute Teacher/Paraprofessional   July 2023 - Current
- Adapting lesson plans to meet the diverse needs of students, providing individualized support to those requiring additional assistance.
- Collaborating with teachers and staff to maintain a positive and inclusive classroom environment conducive to learning.
- Substituting for computer classes, fostering students' problem-solving skills and creativity to code various models.

College of Engineering, University of Michigan
Project Coordinator   May 2024 – Current
- Coordinated and managed logistical components of Engineering OnRamp (Program intended for high school student to engage and experience college life).
- Collaborated with team members on 3 key transitional periods between and during 10 STEM programs.
- Supported 4 program teams which included but not limited to Program Advisors, Student Life Advisors, Residential Advisors, and Professional staff in maintaining digital organization.

Program Advisor   June 2023 – May 2024
- Assisted with in-class activities delivered by the 10 instructors.
- Worked with groups of around 80+ high school students to complete their projects and expand their understanding of the content.
- Collaborated with faculty, staff, and administrators to ensure program alignment with institutional goals.

Inter-university Consortium for Political and Social Research
Program Specialist/Assistant   June 2023 – August 2024
- Helped instructors with 50+ technical issues that occurred when using the university system and classroom tech controllers.
- 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.