

Nadin Agour

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EDUCATION

University of Michigan - *Bachelor of Engineering*

Ann Arbor, MI

Major: Computer Science Engineering **Minor:** User Experience Design

December 2025

Relevant coursework: Data Structures/Algorithm, Human-Centered Software, Discrete Math I & II, Bldg Data

Driven Application, Database Management System, Computer Organization, Linear Algebra.

Washtenaw Community College, *Associate in Science*

July 2022 - August 2023

SKILLS

Programming: C++, C, Python, SQL

Languages: English, Arabic, Turkish

Frameworks: VS Code, X Code, GitHub

Software: Microsoft365, Google Workspace, Adobe

Web Development: CSS, HTML

SOFTWARE DEVELOPMENT PROJECT EXPERIENCE

Resize Image:

- Optimized memory efficiency through strategic pointer usage by developing a smart seam-carving program that dynamically resizes images using mathematical algorithms.

Euchre Game:

- Designed a C++ interface enabling users to play Euchre with simulated players, implementing game strategies through object-oriented programming for realistic, automated gameplay.

Piazza Classifieer:

- Implemented a binary search tree and used the map abstract data type to build a data container that identifies new posts and displays relevant associated content.

Mine Escape:

- Developed efficient data structures and algorithms with priority queues, and implemented an interface utilizing inheritance and dynamic polymorphism for flexible functionality.

SillyQL:

- Created a program to emulate a basic relational database, featuring an interface that supports a subset of SQL commands.

PROFESSIONAL EXPERIENCE

Central Academy

Ann Arbor, MI

Substitute Teacher/Paraprofessional

July 2023 - Current

- Empowered children to develop problem-solving skills and bring their ideas to life by designing and teaching engaging coding lessons with hands-on projects.
- Fostered an inclusive, positive learning environment by tailoring lesson plans to diverse student needs and collaborating with staff.

College of Engineering, University of Michigan

Ann Arbor, MI

Project Coordinator

May 2024 – Current

- Coordinated logistical components of Engineering OnRamp, supporting high school students' engagement in college life through 10 STEM programs.
- Utilized Google Workspace to organize documents and schedules, enhancing digital organization and streamlining collaboration across cross-functional teams during key program transitions.
- Guided Program, Student Life and Residential Advisors on strategies to enhance student engagement and support.

Program Advisor

June 2023 – May 2024

- Supported 10 instructors in developing lesson plans and delivering in-class activities on data development and coding, enhancing students' technical skills.
- Guided 80+ students in applying acquired knowledge to urban farming and food/environmental justice projects, using an equity-centered engineering approach to foster community impact.
- Collaborated with faculty, staff, and administrators to ensure alignment with institutional goals and improve program delivery.

Inter-university Consortium for Political and Social Research

Ann Arbor, MI

Program Specialist/Assistant

June 2023 – August 2024

- Assisted instructors with 50+ technical issues related to university systems and classroom technology controllers, resolving tickets submitted via the Jira Service Management platform.
- Delivered search engine optimization recommendations to 50+ ICPSR staff members, enhancing website visibility and user experience.
- Conducted usability testing on AI platforms, including ChatGPT and Google AI, collecting statistical data from students to evaluate their effectiveness in data analysis and educational support.