

Nadin Agour

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EDUCATION

Eastern Michigan University

Master of Science in Computer Science

Coursework: Artificial Intelligence, Mobile Application Development.

Ypsilanti, MI

May 2027

University of Michigan

Bachelor of Science in Engineering in Computer Science

GPA: 3.6/4.0

Coursework: Operating Systems, Web Systems, Data Structures/Algorithms, Human-Centered Software, Building Data Driven Application, Database Management System, Computer Organization, Linear Algebra.

Ann Arbor, MI

May 2025

SKILLS

Programming and Framework: C++, C, Java, Python, SQL, LISP, VS code, GitHub

Web Development: HTML, CSS, Flask, JavaScript, React API, WordPress

Software: Microsoft 365, Google Workspace, Adobe, Auto CAD, Jira

Languages: English, Arabic, Turkish

WORK EXPERIENCE

University of Michigan

Website Developer, Michigan Engineering Zone

Ann Arbor, MI

June 2025 - Present

- Develop a strong back-end foundation to maintain site scalability and efficiency.
- Conduct iterative testing and debugging to ensure smooth integration of system updates.
- Improve MEZ website performance by implementing reusable components, integrating automated content workflows and innovate customizable features.

Project Coordinator

June 2024 – August 2025

- Implemented a scalable Canvas learning platform to automate onboarding and training, using structured stand-ups and progress tracking to optimize delivery and reduce operational friction.
- Led cross-functional technical and instructional teams to deliver 10 STEM programs, managing workflows, dependencies, and execution for programs serving 90+ students.
- Delivered data-driven presentations to stakeholders summarizing outcomes, and improvement opportunities.

Inter-University Consortium for Political and Social Research

Ann Arbor, MI

Program Specialist Intern

June 2023 – August 2024

- Conducted usability testing on AI platforms (e.g., ChatGPT, Copilot), collecting and analyzing student data to evaluate effectiveness for educational support and user experience.
- Assisted instructors with 50+ technical issues related to university technology systems, resolving tickets through Jira Service Management platform.
- Delivered SEO optimization strategies and analytics insights to improve web platform visibility and user engagement.

PROJECT EXPERIENCE - SOFTWARE DEVELOPMENT

University of Michigan

Ann Arbor, MI

Insta 485

- Implemented a client-side dynamic Instagram clone with React and Flask REST API for posts, likes, and comments using asynchronous JavaScript and real-time UI updates.
- Implemented infinite scrolling, dynamic content loading, and double-click to like for a real-time user experience.

Multi-threaded Pizza Delivery System

- Designed and implemented a concurrent pizza-delivery simulator in C++ supporting D drivers and C customers using custom thread library (CPU, threads, mutexes, cv).
- Ensured thread safety, liveness and correctness through synchronization to prevent race conditions and deadlocks.

Mini Google Clone

- Developed a scalable Python-based search engine using MapReduce, implementing a segmented inverted index, integrating TF-IDF and PageRank scoring, and deploying REST API and dynamic search servers.

Image Processing System

- Implemented energy-based image resizing in C++ using dynamic programming and optimization over pixel grids.
- Computed pixel energy maps and minimum-energy seams, applying foundational computer vision principles.