

# Youssef Abdulle

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## EDUCATION

### University of Minnesota — Twin Cities

May 2026

*Bachelor of Science in Computer Science*

GPA: 3.60

**Relevant Coursework:** Data Structures and Algorithms, Software Engineering, Operating Systems, Software Design and Development, Computer Architecture, Internet Programming

### Honors & Awards

Fall 2023

*College of Science & Engineering Dean's List Recipient*

### Extracurriculars & Organizations

Fall 2023

National Society of Black Engineers, Management Leadership for Tomorrow (MLT), Code2040, Inroads

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C/C++, JavaScript, HTML/CSS, OCaml, Assembly

**Developer Tools:** React, Next.js, VS Code, IntelliJ, Linux, Git/Github, Eclipse

## WORK EXPERIENCE

### Undergraduate Teaching Assistant

June 2024 – Present

University of Minnesota

Minneapolis, MN

- Instructed cohorts of 50+ students weekly in introductory Python concepts and systematically tracked student improvements in grading over the semester
- Coordinated 3 weekly laboratory meetings, implementing discussion-based learning strategies that increased student performance in lab assignments by 30% over the semester
- Led weekly office hours, achieving a 95% satisfaction rate in anonymous surveys, which resulted in increased student attendance at subsequent sessions

## PROJECTS

### AI Interview Assistant Chatbot | JavaScript, Next.js, React, Meta Llama API

Github

- Engineered front-end interface for a 4-person team, creating an AI interview assistant chatbot with Next.js and React, integrating complex UI components to ensure a modern and accessible user interface
- Integrated Meta Llama 3.1 open-access API to enable context-aware responses, overcoming challenges related to handling diverse user queries and improving response accuracy by 20%
- Validated the chatbot's performance through thorough testing and debugging, resulting in a 30% improvement in response accuracy and overall reliability

### Series Recommendation Engine | Python, Scikit-learn, Pandas, Numpy

Github

- Designed a series recommendation system processing 10,000+ titles, utilizing cosine similarity to recommend shows with over 80% accuracy based on user likes and viewing history
- Developed efficient search functionality filtering 100,000+ user ratings, improving recommendation accuracy by 30%
- Utilized pandas and NumPy to preprocess and organize the dataset, reducing data processing time by 50% and ensuring the system could handle large volumes of data and deliver recommendations in under 2 seconds

## LEADERSHIP AND PROFESSIONAL DEVELOPMENT

### Management Leadership for Tomorrow

New York City, NY

Ascend Scholar

Jul 2024 – Present

- Selected as one of 100 candidates in a prestigious professional development program, participating in monthly hands-on workshops that cultivated advanced leadership abilities and fostered effective team collaboration skills
- Participated in exclusive conferences hosted by industry leaders such as Deloitte and LinkedIn, gaining insights into advancements into industry trends such as Machine Learning
- Leveraged knowledge from these conferences to develop and enhance personal projects, leading to significant improvements in machine learning projects and alignment with current industry trends