

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, designing 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 unit and integration testing, 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
- Improved recommendation accuracy by 30% by optimizing search functionality through precise filtering of 100,000+ user ratings and reducing irrelevant data, which enhanced the relevance of recommendations
- Incorporated vectorization techniques such as Singular Value Decomposition (SVD), to preprocess and organize large datasets, reducing data processing time by 50% while keeping recommendation times under 2 seconds

Internship Aggregator Bot | Python, BeautifulSoup, pandas

Github

- Built a web scraping tool using BeautifulSoup and pandas to collect 50+ detailed real-time internship postings daily, including company, role, location, and posting date, organized into a structured display
- Integrated with a Discord bot serving 100+ users, providing automated postings daily, and implemented extensive interactive commands for efficient filtering and exploration of opportunities
- Enabled 15+ students to secure interviews by providing real-time alerts for live openings, allowing them to be among the first to apply and gain a competitive advantage in the application process