Youssef Abdulle

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Education

University of Minnesota — Twin Cities Expected Graduation: 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, Computational Linear Algebra

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, JavaScript, HTML/CSS, OCaml, Assembly
Libraries and Frameworks: React, Next.js, Pandas, Scikit-learn, NumPy, BeautifulSoup
Developer Tools: Git/Github, Linux, VS Code, IntelliJ, Eclipse

Work Experience

Undergraduate Teaching Assistant June 2024 – Present
University of Minnesota Minneapolis, MN

- Instructed cohorts 50+ students weekly in foundational Python concepts, tracking improvements in their grades throughout 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

- Developed a responsive front-end interface for an AI interview assistant chatbot using Next.js and React, focusing on modern design and accessibility
- Integrated the Meta Llama 3.1 API to provide context-aware responses, enhancing the chatbot's ability to handle diverse user queries effectively
- Conducted integration testing on the chat bot, achieving significant improvements in response accuracy and overall performance

Series Recommendation Engine | Python, scikit-learn, pandas, NumPy Github

- Created a recommendation system processing over 10,000 titles, utilizing cosine similarity to deliver personalized suggestions based on user viewing history and preferences
- Improved recommendation relevance by filtering user ratings and leveraging previously high rated series and viewing history, achieving a 20% increase in accuracy
- Incorporated vectorization techniques such as Singular Value Decomposition (SVD) to preprocess large datasets, reducing data processing time significantly and keeping recommendation response times under 2 seconds

Job Scraper Bot | Python, BeautifulSoup, pandas Github

- Developed a web scraper with BeautifulSoup and pandas to collect 50+ real-time internship postings daily, organizing data into a user-friendly format with details like company, role, location, and posting date
- Integrated with a Discord bot serving 100+ users, automating daily postings and offering interactive commands for efficient filtering and exploration of opportunities
- Enabled 15+ students to secure interviews by sending real-time alerts for live openings, helping them apply early for a competitive edge