

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, Full Stack Development, Databases

Honors & Awards

Fall 2023

College of Science & Engineering Dean's List Recipient

Leadership & Professional Development

Fall 2023

National Society of Black Engineers, Management Leadership for Tomorrow, Code2040

TECHNICAL SKILLS

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

Developer Tools: React, Next.js, Flask, Node.js, VS Code, IntelliJ, Git, Eclipse

WORK EXPERIENCE

Undergraduate Teaching Assistant

Aug 2024 – Present

University of Minnesota

Minneapolis, MN

- Instructed cohorts of 250+ students weekly in introductory Python concepts and systematically tracked student improvements in grading over the semester
- Conducted multiple weekly office hours and laboratory meetings to further assist student comprehension of programming material
- Organized group study sessions and peer-led review workshops to enhance collaborative learning and problem-solving skills among students

PROJECTS

AI Customer Support Chatbot | JavaScript, Next.js, React, Meta Llama API

Github

- Collaborated with 3 developers to build an AI customer support chatbot, utilizing Next.js with React frontend alongside a modern responsive and accessible user interface
- Incorporated Meta Llama 3.1 open-access API to handle user interactions and provide context-aware responses within the chatbot framework
- Validated the chatbot's performance through thorough testing and debugging, resulting in a 30% improvement in response accuracy and overall reliability

Internship Aggregator Tool | Python, BeautifulSoup, pandas, Discord API

Github

- Developed a web scraping program utilizing BeautifulSoup and pandas to extract detailed internship information including company, role, location, and posting date, and display the results in an organized table format
- Integrated program with Discord API to develop a bot that checks for updated postings hourly, providing notifications of postings alongside interactive commands to filter and access openings
- Utilized Flask to manage and update the internship database, leading to efficient data management which helped fellow students discover opportunities they might have missed, helping several of my friends to secure interviews

Spell Checker | C

Github

- Developed a C-based Spell Checker, utilizing a hash table data structure and leveraging dynamic memory management and file I/O to simplify program compilation.
- Optimized dynamic memory efficiency with the usage of malloc and free combined with a Makefile for efficient code compilation and automated testing, ensuring functionality and correctness of the spell checker.
- Implemented a command-line interface for dictionary manipulation, spell checking text files, and supporting optional command line arguments.