

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, 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, ColorStack

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 300+ 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
- Integrated the Meta Llama 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, Flask, BeautifulSoup, pandas

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 with a Discord bot to send real-time updates and new postings to friends and students, providing real-time notifications of new openings alongside interactive commands to access, filter, and navigate postings.
- Built a Flask-based web server with SQL integration to manage and update the internship database, leading to successful job placements by helping fellow students discover opportunities they might have missed.

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.