Jonathan Young

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EDUCATION

St. Olaf College   Northfield, MN
Bachelor of Arts in Computer Science, Minor in Management Studies, GPA: 3.94   *Aug. 2021 – May 2025*
- Courses: Data Structures, Hardware Design, Software Design, Elementary Linear Algebra, Discrete Mathematical Reasoning, Analysis of Algorithms, Ethical Issues in Software Design

TECHNICAL SKILLS

Languages: Python, C/C++, ARM Assembly, HTML, CSS, JavaScript/Node.js
Frameworks: Bootstrap, Express, React, AWS
Developer Tools: Visual Studio Code, Git, Chrome Developer Tools

TECHNICAL EXPERIENCE

Undergraduate Research, Computer Science   June 2023 – February 2024
St.Olaf College   *Northfield, MN*
- Developed an algorithm using Python to allocate goals in a hierarchical goal tree to available agents in the domain
- Rigorously tested team-created algorithms and portrayed data using Matplotlib and Pyplot
- Created project documentation using Sphinx and hosted using GitHub Pages
- Gathered findings into a paper and a final poster and presented at a symposium

Hardware Design TA   January 2024 – Present
St.Olaf College   *Northfield, MN*
- Assisted professor in leading discussions, led weekly help sessions, and provided exam prep for students
- Graded written assignments and used command line scripts to grade coding assignments
- Prioritized providing an inclusive learning environment for all students

TECHNICAL PROJECTS

StockSquad | *C++, React Native, Git*   Spring 2023
- Built a paper stock trading social media application using C++
- Implemented a GUI with React Native using a client-server model
- Worked with a mentor and led a team of students throughout the development cycle

Book Review App | *HTML, CSS, JavaScript : Node.js, PostgreSQL*   Spring 2024
- Built a web-app to keep track of books read and associated notes
- Independently built out the front-end and back-end entirely
- Used a free API to automatically display covers of inputted books on front-end

Library Management System | *C++*   Spring 2022
- Created a book management system for 1000's of books using C++
- Made use of a linked list to store book information
- Added sorting feature using Bubble Sort and searching ability using Binary Search

Translate Chat (Ole Hackathon) | *Python, HTML, CSS, Firebase*   Fall 2022
- Developed a web application using the ChatGPT API to translate user messages
- Built out front-end using HTML and CSS, built and implemented back-end using Firebase
- Presented project and finished top 3 at Ole Hackathon

Text Parser/Editor | *ARM Assembly*   Spring 2023
- Developed a program to analyze/edit input text entirely in Assembly
- Provided functionality to replace sub strings with new values
- Program reported the number of characters, words, and lines inputted

ACHIEVEMENTS/COMMUNITY ENGAGEMENT

Dean's List: Spring 2022, Fall 2022, Spring 2023, Fall 2023
Men's Ice Hockey: NCDC/USHL/NAHL 2018 - 2021, St.Olaf College, 2021 - Present
Algorithms Club: St.Olaf College, 2022
Ole Career Launcher, AlgoExpert: St.Olaf College, Fall 2022