Jonathan Young

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EDUCATION

St. Olaf College   Northfield, MN
Bachelor of Arts in Computer Science, Minor in Management Studies, GPA: 3.95   *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: Java, Python, C/C++, Swift, ARM Assembly, HTML, CSS, JavaScript
Frameworks/Technologies: Spring, GraphQL, Bootstrap, Express, React, AWS
Developer Tools: Intellij, Visual Studio Code, Xcode, Git, Chrome Developer Tools

TECHNICAL EXPERIENCE

Software Engineer Intern   June 2024 – August 2024
US Bank   *Hopkins, MN*
- Built out an internal API using Spring Boot, GraphQL, and Java to get trade information
- Implemented an internal API using Spring Boot and Java to help with trust account onboarding
- Incorporated SDLC concepts and Agile methodologies when working with team

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

QuoteFlow iOS App | *SwiftUI, SwiftData, UIKit*   Present
- Best book and quote tracker available on the App Store
- Utilized the Google Books API to provide user access to 40,000 books
- Have over 50 users and a 5 star rating

Path Visualizer App | *HTML, CSS, JavaScript*   Spring 2024
- Developed a path-finding algorithm visualizer
- Implemented BFS, DFS, A*, and Dijkstra's Algorithm as well as random and Prim's Algorithm for maze generation
- Can create obstacles and weights to create different mazes

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

ACHIEVEMENTS/COMMUNITY ENGAGEMENT

Dean's List: Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024
Men's Ice Hockey: St.Olaf College, 2021 - Present, Captain 24-25; NCDC/USHL/NAHL 2018 - 2021
Algorithms Club: St.Olaf College, 2022
Ole Career Launcher, AlgoExpert: St.Olaf College, Fall 2022