

KATIE MACALINTAL

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EDUCATION

Middlebury College

Candidate for Bachelor of Arts, Computer Science

Middlebury, VT

Expected May 2024

Cumulative GPA: 3.97/4.0 (College Scholar: Highest Academic Honor)

Relevant Courses: Data Structures, Algorithms and Complexity, Systems Programming, Crash Course in Systems Security, Math Foundations of Computing, Calculus I, Linear Algebra, Computer Networks (Now), Machine Learning (Now)

Skills: JAVA, Python, C, Linux, React.JS, JSON, HTML, CSS, Visual Studio Code, Vim, Git

EXPERIENCE

Middlebury's Computer Science Department

Course Assistant for Introduction to Computing in Python

Middlebury, VT

September 2021 - Present

- Work with up to 15 students simultaneously to improve their coding skills by exploring foundational algorithmic strategies such as selection, iteration, and recursion during scheduled two-hour-long office hours
- Ask students guiding questions to help them debug their code and promote active learning, resulting in a deeper understanding of key coding concepts and improvement in their problem-solving abilities

Microsoft

Explore Intern (SWE + PM) for AI Cognitive Services

Bellevue, WA

May 2022 - August 2022

- Designed and developed an intuitive full stack website in React.js with two podmates for internal employees and 1P customers to demo and provide feedback on our document extractive, document abstractive, and conversation summarization capabilities
- Called asynchronous summarization methods through REST API for users to easily and efficiently interact with services without needing external API tools, creating a more streamlined user experience

PROJECTS

Systems Programming Course: Chat Server and Chat Client (C)

December 2022

- Created a command-line based chat room on a local server utilizing ports, allowing multiple clients to connect and change their identifying nicknames
- Implemented multi-threading and mutual exclusion mechanisms to ensure efficient and synchronous communication of new connections, disconnections, nickname changes, and message exchanges to all clients

Algorithms and Complexity Course: Shortest Route (JAVA)

May 2022

- Implemented the Bellman-Ford dynamic programming algorithm to find the shortest walking route between two locations in Middlebury, VT in a timely manner
- Utilized hash maps as adjacency lists to efficiently store and organize data from the Middlebury map in a graph-like structure

Data Structure Course: Spell Checker (JAVA)

May 2021

- Utilized HashTables to store words read from a dictionary file and enable time-efficient spelling verification
- Implemented a bucket sort to order the misspelled words alphabetically efficiently
- Wrote a version of the input file with the misspelled words corrected according to the user's choice, a file containing a list of the misspelled words with their line numbers in order of appearance, and a file that displayed misspelled words alphabetically

LEADERSHIP

Middlebury's Women in Computer Science Club (WiCS++)

President (January 2022 - December 2022), Treasurer (January 2023 - Present)

Middlebury, VT

January 2022 - Present

- Implemented new interview prep and career resource workshops to better prepare members for their recruitment processes
- Partnered with our Center for Careers and Internships to organize three sessions a semester featuring alumni leaders in technology to better inform members about topics such as different career paths and post graduation life
- Execute a \$2,000 budget, which was allocated to purchase technical prep resources and fund networking events, promoting learning and strengthening the connections between members

AWARDS & ORGANIZATIONS

Conferences: Grace Hopper Celebration 2021 Scholar, WECODE 2021 and 2022 Conference, Liberty Mutual's Women in Technology Summit 2021, Tapia Conference 2022 Scholar, Grace Hopper Celebration 2022 Attendee

Activities: MiddCORE Summer Intern Lab 2021, South East Asian Society (SEAS), Women of Color (WOC)