

KATIE MACALINTAL

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College Address:

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14 Old Chapel Rd
Middlebury, VT 05753

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, Computer Architecture, Math Foundations of Computing, Calculus I, Linear Algebra, Inclusive Design and Design Justice, Intro to Data Science (Now), Systems Programming (Now)

Skills: JAVA, Python, React.JS, Git, JavaScript, HTML, CSS, Adobe Premier

EXPERIENCE

Middlebury's Computer Science Department

Tutor for Introduction to Computing in Python

Middlebury, VT

September 2021 - Present

- Work one-on-one with students on their course assignments, which focus on exploring algorithmic strategies such as selection, iteration, divide-and-conquer, and recursion by coding in Python during scheduled office hours
- Ask students guiding questions on their assignments to help them debug their code and promote active learning

Microsoft

Explore Intern (SWE + PM) for Microsoft's AI Cognitive Services

Bellevue, WA

May 2022 - August 2022

- Created a website with two pod mates through full stack web development in React.js for internal employees and 1P customers to demo document extractive, document abstractive, and conversation summarization capabilities
- Called asynchronous summarization methods through REST API to ensure seamless interactions with services for the user
- Outlined and implemented additional webpage features to ensure that the website was versatile, dynamic, and met users' needs

PROJECTS

Algorithms and Complexity Course: Shortest Route (JAVA)

May 2022

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

Algorithms and Complexity Course: Closest Schools (JAVA)

March 2022

- Developed a program that found the closest pair of K-12 schools in Vermont based on data provided to address the financial challenges associated with schools where the student population has been falling
- Implemented an algorithm that found the closest pair of schools in $O(n \log n)$ time using divide and conquer paradigms

Data Structure Course: Spell Checker (JAVA)

May 2021

- Utilized HashTables to store words read from a dictionary file and enable time-efficient spelling verifications
- 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

Middlebury, VT

January 2022 - Present

- Implement events, such as stress busters, interview prep, networking sessions, and resource workshops, to create a fun and supportive community for women in computer science
- Organize weekly executive board meetings, biweekly member meetings, and externally hosted conference logistics

Middlebury's Computer Science Department

Student Advisory Committee Member

Middlebury, VT

January 2022 - March 2022

- Attended a simulated classroom lecture, research talk, and informal mixer hosted by computer science professor candidates
- Provided honest feedback to assist the computer science department in making their final hiring decisions

ADDITIONAL

- 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)