KATIE MACALINTAL

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EDUCATION

Middlebury College **Middlebury, VT**
Candidate for Bachelor of Arts, Computer Science *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, JavaScript, JSON, HTML, CSS

EXPERIENCE

Middlebury's Computer Science Department **Middlebury, VT**
Tutor for Introduction to Computing in Python *September 2021 - Present*
- Work one-on-one with with up to 15 students on their course coding assignments, which focus on exploring foundational algorithmic strategies such as selection, iteration, and recursion during scheduled two-hour-long office hours
- Ask students guiding questions on their assignments to help them debug their code and promote active learning

Microsoft **Bellevue, WA**
Explore Intern (SWE + PM) for Microsoft's AI Cognitive Services *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 allow users to easily interact with services without needing external API tools

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

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 student populations have been falling
- Implemented an algorithm that found the closest pair of schools in O(nlogn) 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++) **Middlebury, VT**
President *January 2022 - Present*
- Organize weekly executive board meetings and biweekly member meetings to create a supportive environment for women in computer science
- 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 that feature alumni leaders in technology

Middlebury's Computer Science Department **Middlebury, VT**
Student Advisory Committee Member *January 2022 - March 2022*
- Attended a classroom lecture, research talk, and mixer hosted by six different 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)