

JIAQI LI

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EDUCATION

Middlebury College

Sept. 2018 - Current

Bachelor of Arts Computer Science Major 2022

Cumulative GPA: 3.87

Honors: College Scholar's List (highest academic honor), Climate Action Fellowship, UWC Davis Scholar

Relevant coursework: Software Development, OOP & GUI Application Dev, Machine Learning, Programming Languages, Data Structures, Glaciology, Remote Sensing in Geoscience, Writing on Contemporary Issues

SKILLS

TECHNICAL SKILLS: Python, JavaScript, C/C++, Java, R, Prolog

TECHNOLOGIES: React, Git, Jupyter Notebooks, Linux, Eclipse

LANGUAGE SKILLS: Native proficiency in Mandarin

EMPLOYMENT

National Center for Atmospheric Research, Summer Internship in Parallel Computational Science Intern

June 2021 - Aug. 2021

- Published **20+** plotting templates on [GeoCAT-Examples Gallery](#) and developed Taylor Diagram class and convenience functions in [utility function library](#), greatly expanding GeoCAT toolkit and its scientific visualization capacity
- Implemented NCL analysis routines and utilized Numpy, Xarray and Matplotlib packages to process and visualize atmospheric/oceanic data
- Presented process and results to NCAR scientists and co-authored a poster at American Geophysical Union (AGU) Fall Meeting 2021

Middlebury College Environmental Studies Dept, Research Intern for Easton White, PhD and Mez Baker-Medard, PhD

Jan. 2021 - May 2021

- Utilized R to implement spatial data analysis to investigate impact of COVID on global fishing dynamics
- Conducted literature review to contribute to the ongoing research of industrial fishing effort analysis in Marine Protected Area

Middlebury College Computer Science Dept, Tutor/Grader

Sept. 2019 - Dec. 2019, Spring 2021 - Fall 2021

- Reviewed three algorithm-implementation coding projects for **40+ students** in Algorithm and Complexity
- Led tutorials in weekly, hour-long group sessions for **60+ students** in intro level computer science classes for content review and debugging
- Monitored students' progress in collaboration with other tutors and professors to maintain an inclusive and open environment

Middlebury College Digital Learning and Inquiry, DLINQ Intern

June 2020 - Jan. 2021

- Regularly identified and remedied technical issues and design needs of digital learning tools and platforms to support Middlebury College Language Schools, conducting **20+ virtual consultations**
- Designed an opinion survey serving as the template for future assessment of digital needs

PROJECTS

MIMDB

Sept. 2021 - Current

- Engaging in full stack development of a web application using the React framework, Node.js, Next.js, and PostgreSQL to provide an online platform to host and submit films and directors' information for the Middlebury film department

Rocket Launch Rate Optimization

Mar. 2021 - May 2021

- Created a desktop [application](#) in a team of 4 using Qt development framework and C++ with user-input parameters and visualization while optimizing rocket-launching algorithm from 20 seconds in R to 5 milliseconds

Byte the Bullet (Whack Hackathon 2020)

Nov. 2020 - Nov. 2020

- Led a team of four in developing a web interface simulating a bulletin board with a visualization of contact tracing circle (worked on front-end)

LEADERSHIP

Environmental Affairs Committee, Committee Member

Jan. 2019 - May 2020

- Co-led and rehabilitated Meat Reduction campaign in a team of 3 to achieve 30% in meat reduction on campus, using visual design, survey analysis and a meatless dining hall experiment
- Successfully aligned major stakeholders (Student Government Association, Midd Dining, College Athletics) to a common vision