Noah Rizika

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EDUCATION

Middlebury College — Middlebury, VT

Bachelor of Arts -- Biochemistry — September 2021 - May 2024

- **GPA:** 3.82, Graduated Summa Cum Laude, College Scholar (Highest Academic Honor) all semesters
- **Relevant Coursework:** Computer Architecture (in C), Big Data Analysis (in Python), Machine Learning (Udacity, Python), Data Structures and Algorithms (Udemy, C++), Calculus II, Physics (Electromagnetism)
- **Programming Skills:** Python, C++, JavaScript/HTML/CSS, AWS, React, PostgreSQL, Linux, Jupyter, Pandas
- **Leadership & Activities:** Climbing Club President and Coach, Water Polo Captain, Community Friends and Sports PT Volunteer, Recipient of Middlebury's Cross-Cultural Community Engagement Grant

University of Washington, Seattle — Seattle, Washington

- **GPA:** 4.0, Dean's List (Highest Academic Honor) all quarters — August 2020 - June 2021
- **Activities:** Carbon Footprint Analysis, Conservation Research, Consulting, Writing & Editing

EXPERIENCE

MPoMP Lab, Middlebury College — Middlebury, VT

Developer and Data Analyst -- Research Assistant — September 2023 - January 2024

- Created Python scripts with PyPdf for PDF to custom-formatted .rtf conversion to expand viable data
- Developed cross-tabulation functions using NumPy for analyzing multivariate categorical data
- Analyzed 600,000+ articles on a small team via collocations, sentiment analysis, topic modeling and Pandas analysis in Jupyter Notebooks to uncover the emerging politicization of AI and major shifts in how the media discusses climate change, the latter being published in Yale Climate Connections

Bing He Biological Research Lab, Dartmouth College — Remote

Machine Learning Engineer — August 2023 - October 2023

- Developed a computer vision model to classify cell stage development and expedite data collection
- Operated with a limited dataset of an unsupported image format using PyTorch in AWS SageMaker

Pivotal Software Inc. / Chadwick High School — Santa Monica, California

Front End Web Developer -- Intern — June 2019 - September 2019

- Worked on an Agile team to create weightlifting and objective-setting web applications for my high school with TypeScript, HTML 5 and SCSS using Angular and Firebase
- Added security and functionality by incorporating the Google Sign-In API, drag/drop features, and test cases for both projects

PROJECTS (https://github.com/noahrizika)

- **Outdoor Rock Climbing Website:** Developed a multi-page ReactJS web app with the Google Maps API and a RESTful weather API to direct users to a newly-discovered outdoor bouldering area
- **Supervised ML Workflow:** Operationalized a machine learning model to expedite inference requests with Lambda functions in AWS SageMaker using Python and JSON.
- **Biochemistry Calculators:** Created C++ programs using hashmaps, logic statements and math to determine DNA stacking energies, a protein's charge and isoelectric point, and mRNA base pairings.

SKILLS & INTERESTS

Problem Solving • W-EMT • Exercise and Nutritional Science • Skiing • Running • Organic Chemistry • Go (game)