

# Noah Rizika

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## QUALIFICATIONS

- **Disciplined self-starter** with a proven ability to quickly learn and apply new technologies independently
- **Hard Skills:** C/C++, TypeScript, Python, Java, React/Next.js, PostgreSQL, AWS, Linux, Git, Pandas, PyTorch
- **CI/CD & Git:** Experienced in agile workflows—ensuring seamless code integration, automated testing, and efficient delivery of production-ready software
- **Machine-Level Engineer:** Built networked embedded systems with motor control and SPI-based sensors
- **Certificates:** AWS Machine Learning Engineer Nanodegree (Udacity), Security+ (CompTIA)

## EDUCATION

### Middlebury College

Middlebury, VT

*Bachelor of Arts -- Biochemistry / Computer Science Focused*

September 2021 - May 2024

- **GPA:** 3.82, Summa Cum Laude, College Scholar (Highest Academic Honor) all semesters
- **Relevant Coursework:** Software Development, Systems Programming, Systems Security, Computer Architecture, Data Structures and Algorithms, Big Data Analysis, Calculus II, Electromagnetism
- **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

## EXPERIENCE

### Atom Grants

Remote

*Junior Full Stack Developer*

September 2024 - Present

- Shipped production code at a fast-paced and growing startup, helping streamline scientific grant application workflows and contributing to cutting-edge backend solutions
- Led development of web scraping scripts utilizing top AI models and cron jobs to automate data collection and processing from 1,200+ foundations, generating formatted JSON for over 25,000 grants
- Implemented secure backend functions and managed external user access for the development of internal admin dashboards using Next.js, Tailwind, TypeScript, and Supabase (PostgreSQL)

### Eric Bleich MPoMP Lab, Middlebury College

Middlebury, VT

*Data Analyst and Developer*

September 2023 - May 2024

- Analyzed 600,000+ articles on a small team via collocations, sentiment analysis, topic modeling and Pandas analysis to uncover emerging AI politicization and changes in the use of climate crisis terminology
- Created Python scripts with PyPdf to convert PDFs to custom-formatted .txt files to expand viable data
- Developed cross-tabulation functions using NumPy for analyzing multivariate categorical data

### 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
- Built a full workflow using limited, unsupported image data with PyTorch and OpenCV in AWS SageMaker

## PERSONAL PROJECTS (<https://github.com/noahrizika>)

### Semi-Autonomous Drone Swarm (WIP)

- Building an ESP32-based drone swarm, using sensor fusion and a PID controller for stabilization algorithms and sharing drone coordinates via MQTT and ESP-NOW using OOP and multithreading in C++

### Systems Engineering

- Wrote a shell and optimized read, write and brk/sbrk (malloc) system calls in C on Linux

### Outdoor Rock Climbing Website

- Built a React.js website with Google Maps and RESTful weather APIs to guide users to new climbing areas
- Created a Node.js backend connected to PostgreSQL for organizing upcoming college climbing events
- Wrote Python scripts that processes climbing data to propose a novel rock climbing grading system