Noah Rizika

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QUALIFICATIONS

- **Disciplined self-starter** with a proven ability to quickly learn and apply new technologies independently
- **Hard Skills:** Python, C++, C, TypeScript, React.js, 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
- **Low-Level Engineering:** 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 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

- Leads the development of internal admin dashboards using Next.js, Tailwind, TypeScript, and Supabase, managing the UI/UX and security of functions and external user access
- Streamlines scientific grant application processes by impactfully contributing in a fast-paced startup environment, shipping production code and collaborating effectively with cross-functional teams

Computer Science Department, Middlebury College Middlebury, VT

Assistant Computer Science Instructor September 2024 - Present

- Sets and manages personal office hours and collaborates with faculty to assist in lab sessions for student support in introductory to advanced computer science courses
- Leads the development of pedagogical training programs in collaboration with administration and faculty, aimed at enhancing course assistants' ability to deliver quality educational support
- Supervises and coordinates the hiring, training and help session scheduling for course assistants

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

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

- **Semi-Autonomous Robot Swarm:** Building an Arduino-based robot swarm, communicating sensor data and AI-generated movement instructions via MQTT and ESP-NOW using C++ and Python
- **Cybersecurity Chatbot:** Developed a full stack Next.js web app using Typescript, Tailwind, Supabase and OpenAI's API to create a prompt-engineered AI assistant for attack payload development and analysis
- **Systems Dev:** Built a shell and optimized system calls in C including read, write and brk/sbrk (malloc)
- **Digital Logic Circuits:** Designed circuits at various abstraction levels in Logisim, including a register file, ALU, associative memory, and an ARM32 processor
- **Outdoor Rock Climbing Website:** Developed a full stack React.js web app integrating Google Maps and RESTful weather APIs to guide users to new climbing areas. Built a Node.js backend connected to PostgreSQL for managing and displaying upcoming college climbing events in real time