

# Elijah Retzlaff

(541) 282-4650

elijah.retzlaff@columbia.edu

riverray121.github.io/elijah-website.github.io/

New York, New York

github.com/riverray121

linkedin.com/in/elijah-retzlaff/

## EDUCATION

---

### Columbia University

B.A. in Computer Science

New York, NY

2023 – 2025

- Columbia Hiking Club, Columbia Build Lab, 3.82/4.00 GPA, ACT 35
- Relevant Coursework: Advanced Programming in C, Computer Science Entrepreneurship, Engineering Design

### Tufts University School of Engineering

B.S.E. in Biomedical Engineering and Biotechnology 3.54/4.00 GPA (68/120 Credits)

Medford, MA

2019 – 2021

## EXPERIENCE

---

### Innovations Health Devices

Product Manager

Citrus Heights, CA

Feb. 2021 – Aug. 2022

- **Led Product R&D of Kinoped Medical Robot:** Hired and led a team of 10 engineers through development of functional prototype in 10 months. ( [Visual Link](#) | [Google Drive Link](#) )
- **Managed Budget and Adapted Project Plans:** Steered team through development sprints and monthly budgets, maintaining high morale and clear direction during project setbacks and financial constraints.
- **Pursued Series A Fundraising:** Led outreach and created fundraising materials, resulting in several dozen investor discussions.

*Tools: Azure DevOps, MS Project, ROS1/2, Azure PostgreSQL, UnityXR, Xsens Mocap, Qt, Solidworks, Fusion360, Power and Metal Fab Tools, Soldering and Wiring Tools, 3D Printing, Lean Startup Principles*

Engineering Intern

May 2020 - Sep. 2020

- **Built Prototype Robotic Control Software:** Developed a robotic simulation and controller in C++ and Python.
- **Contributed to Machine Designs:** Provided design suggestions for medical devices, backed by a detailed technical write-up.

## PROJECTS

---

- **Simple Web Server in C - Dec. 2023:** Basic implementation of web server in C to handle and serve HTTP 1.0 requests. Final project for Columbia Advanced Programming in C, received 100/100 grade. ( [Code Link](#) )
- **Jump Scheduler - Sep. 2022:** Web-based middle school course scheduling software. Full stack web app development using Flask, AWS elastic beanstalk, and Stripe.
- **Pronto! - Sep. 2020:** iOS application for group organization and communication during 2020 Black Lives Matter protests. Worked on team of 3 using SwiftUI.
- **Ashland QuarantTeam – Apr. 2020:** Marketplace app for small business social distancing. iOS development using UIKit, Firebase, and Stripe.

## SKILLS AND INTERESTS

---

**Skills:** C, C++, Python 3, Project Management, Relationship Building, Fabrication (Wood, Welding, 3D Printing)

**Interests:** Reading, Human Connection, String Theory, The Wire, AI, Quantum Compute, Cosmology, Music