

## EDUCATION

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### Columbia University

*BA Computer Science*

**Sept 2021-May 2025**

*New York, NY*

- 3.75 GPA
- Dean's list 2021-2023
- Full Stack Developer for Columbia University Lion Dance Club

### Riverdale Country School

**Sept 2017-June 2021**

*High School*

- Full 4 year Computer Science Curriculum
- Relevant Coursework: Data Structures and Machine Learning, Web Design (LAMP architecture), Computer Graphics

## Work/Project Experience

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### NLP Research Project

**May 2023 - Aug 2023**

*Research Assistant*

*New York, NY*

- Columbia University Department of Engineering research project to find a link between Temperature and Crime
- Analyzed data from Facebook & Reddit converted it from ndjson to ORC format, and then analyzed the sentiment with BART
- Participated in weekly meetings and worked collaboratively with other Research Assistants on above projects.

### CULD-Hub

**May 2023 – Present**

*Full Stack Developer*

*New York, NY*

- Managed, maintained, and updated a website designed to streamline and manage Lion Dance Club performance Affairs, coded in TypeScript and Django with a postgresSQL database
- Maintained club website (culiondance.org) with Bootstrap

## Relevant Coursework

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### Operating Systems I

**Sept 2023-Dec 2023**

- Learned about Operating Systems Theory & Practice within the context of the linux kernel
  - The Process Abstraction, Scheduling
  - Memory Mapping and Virtual Addressing
  - Filesystems
- Found lines in the Kernel Code where important kernel processes were happening
- Wrote scheduling class, shadow page table trace, and syscall trace, and simple filesystem kernel patches with a team

### Computer Networks I

**Sept 2023-Dec 2023**

- Learned Principles of Computer Networks
  - Anatomy of fundamental protocols, such as CDN, TCP, UDP, HTTP, Routing algorithms, SDN, network load balancing protocols, etc.
- Wrote Reliable Data Transfer Chat App over UDP in C
- Wrote implementation of Bellman Ford Algorithm and the Go-Back-N Protocol over UDP in Rust

## SKILLS & INTERESTS

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- **Skills:** C, Rust, C++, Java, TypeScript, Python, Git, Django, Pandas, Pyarrow, LaTeX, Fluent in Spanish, Basic Mandarin, Prometheus, Elastic APM, LAMP,

- **Interests :** Knitting, Jazz Piano, Saxophone, and Guitar, Lion Dance, Foreign Movies, The Legend of Zelda