

# ERIN YAN

erinyan@andrew.cmu.edu | 646-229-0630 | NYC, NY | erinyan.dev

## EDUCATION

### Carnegie Mellon University

May 2024

#### Bachelor of Science in Electrical Computer Engineering GPA 3.9

**Relevant Coursework:** Fundamentals of Programming & Computer Science (Python), Differential and Integral Calculus, Introduction to Electrical Computer Engineering (Arduino), Concepts of Mathematics, Integration and Approximation, Introduction to Meche(Arduino), Writing about Data

**Extracurriculars:** Tartan Scholars CIA Buggy, Society of Women Engineers, Women in Electrical & Computer Engineering

### The Bronx High School of Science

June 2020

GPA 3.8 SAT 1520

## TECHNICAL EXPERIENCE

### Idaho National Laboratory — Incoming Research Intern

May 2021 - July 2021

### Tristate Explore CSR — Student Researcher

February 2021 - April 2021

- Conducted research on fairness and privacy on optimal transport with a team of peers in this 8 week program sponsored by Google Research
- Used Matlab in order to complete a distributive algorithm using ADMM based on a central planner and created allocation schemes for a variety of case studies
- Created a research poster and presented research results at a workshop to professionals and students. Won second place for the poster presentation

### Berri.io — Front-End Developer

October 2020 - Current

- An essential part of developing Berri.io, a website that connects and enables college students to make friends through personality and interest within their university
- Leads the team in updating app interface and creating custom components to aid mobile user experience
- Works on the 6-person coding team for this startup
- Independently learned Quasar and Vue.js to create dynamic web pages
- Managed Berri.io's launch and rollout for Carnegie Mellon University

### Google Computer Science Summer Institute

July 2020 - August 2020

- Participated in an intensive 4-week computer science summer program for high-achieving students
- Attended developmental workshops to better understand product design, software engineering interviews, and resume development
- Completed 15-project-based Javascript processing curriculum taught by Google Engineers
- Developed multiple personal projects while independently learning new languages and frameworks including HTML, CSS, Node.js, and Github

### Singh Labs - Brooklyn College — Research Assistant

October 2019 - June 2020

- Completed full research paper: Computational Analysis of the Fruit Fly Nuclear Receptor E75B Reveals a Conservation of the HODE Binding Function with Human PPAR- $\gamma$
- Performed homology modeling and docking analysis on PPAR $\gamma$  and E75b proteins
- Won NYC Junior Science and Humanities Symposium Regional Semifinalist
- Analyzed protein structure and function using various bioinformatics programs
- Found homologous pathway between fruit fly and human physiologies with potential biomedical applications to cardiology and oncology research

## KEY SKILLS

Python, C0, Matlab, JavaScript, Vue.js, HTML, CSS, Arduino, Fusion 360, Onshape, Microsoft Office, SolidWorks