ERIN YAN

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EDUCATION

Carnegie Mellon University   **August 2020 - May 2024**
Bachelor of Science in Electrical Computer Engineering
Relevant Coursework: Fundamentals of Programming & Computer Science (Python), Introduction to Electrical Computer Engineering (Arduino), Concepts of Mathematics, Introduction to Meche (Arduino)

The Bronx High School of Science   **September 2016 - June 2020**
GPA 3.8 SAT 1520

TECHNICAL EXPERIENCE

Idaho National Laboratory — Research   **May 2021 - July 2021**
- Developed proof of concept machine learning algorithm with over 98% accuracy to monitor conditions of piping systems in modular reactors using artificial neural networks
- Worked closely with a group of postdoctoral researchers to complete research paper on structural health monitoring of nuclear microreactors
- Used Numpy, Pandas, and Scipy for data preprocessing to transform 10Gb of time series data into STFT surface plots
- Will soon complete the 8-week MIT-INL Machine Learning Summer 2021 Symposium

Tristate Explore CSR — Student Researcher   **February 2021 - Current**
- Conducted research on fairness and privacy on optimal transport with a team of peers in an 8-week program sponsored by Google Research
- Used Matlab 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
- Developed datasets for source and target countries using Selenium, Bs4, xlwt, and xlrd

Berri.io — Front-End Developer   **October 2020 - Current**
- Works on a 6-person coding team for 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 enhance mobile user experience
- 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
- Created Bomberman game with partner 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-γ*
- Won NYC Junior Science and Humanities Symposium Regional Semifinalist
- Found homologous pathway between fruit fly and human physiologies with potential biomedical applications to cardiology and oncology research

KEY SKILLS

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