

Melody Nguyen

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EDUCATION

B.A. Computer Science

New York, NY

Minor in Business, Pace University Dean's List, with Honors - GPA: 3.73

May 2026

- Courses: Data Science with Python and R, Data Structures and Algorithms, Object-Oriented Programming, Computer Organization, SQL for Business, Mathematical Structures, Calculus, Economics, Marketing Research

EXPERIENCE

Ambassador

September 2024 – Present

marimo.io - Reactive Python Notebook

Remote

- Designed a Stanford University site and authorized scientific blog to showcase AI, data visualization, app-building

Data Analyst, Research Intern

June – August 2024

SLAC National Accelerator Laboratory, Department of Energy

Stanford, CA

- Conducted climate research on extreme weather across 60+ photovoltaic systems using Python, statistics, calculus
- Visualized renewable energy trends and forecasts via interactive marimo graphs, NumPy, Matplotlib, and Seaborn
- Optimized testing methodologies for electrical grid deployments through SLAC Linux code documentation
- Designed a resource website for the Sustainability Research Strategic Initiative to support R&D collaboration

Website Developer, Marketing Intern

March 2023 – June 2024

SLAC National Accelerator Laboratory, Department of Energy

Stanford, CA

- Managed code for a software simulation's website to support deployment of electricity distribution power systems
- Developed 5+ scientific platforms using HTML/CSS to provide data and use-case tutorials for research developers
- Revamped user interface and functionality for SLAC-Stanford Battery Center website, increasing user satisfaction

LEADERSHIP

Founder and President

January 2021 – December 2023

Educational Equity Initiative

San Jose, CA

- Mentored 20 high-schoolers to create an open-source platform for young women to learn code and web development
- Coordinator of donation drives, raising \$500 for the Malala Fund and donating clothing to migrant families in NYC

President

May 2023 – Present

Institute for Operations Research and Management Science

New York, NY

- Taught over 200 college students Python, R, SQL, Tableau, Excel with interactive workshops and competitions
- Awarded Pace University "Organization of the Year" for tripled attendance, events, and +700 platform growth

Campus Director and Technologist

July 2023 – April 2024

United Nations Academic Impact

New York, NY

- Millennium Fellow of 44,000+ applicants, led Civic Leadership Program for 15 student founders with SDG projects
- Served as a 5X youth delegate and sustainability speaker at ECOSOC, UN Youth Forum, SDG Action Weekend
- Introduced Malala Yousafzai for 2023 graduation, inspiring over 3,000 attendees in support of girls' education

PROJECTS

Arras Energy Website | *HTML, CSS, Markdown, GitHub, Google Analytics*

June – August 2023

- Released Linux Foundation simulation software, advancing renewable energy research for 30+ utility developers
- Connecting key stakeholders to 10+ trainings for power system research, operations, policy-making, regulations
- Presented final product to sustainability 15 researchers and engineers at SLAC National Laboratory's GISMo team

Wall Street Journal Case Study | *MySQL, Tableau, Microsoft Excel, Canva*

September – December 2022

- Cultivated a 3-year marketing strategy through consumer research and SWOT analysis to increase retention rates
- Increased 23% customer membership renewal through revamped platforms, deals and alumni targeted promotions

SKILLS

Programming Languages: Python, Java, C, R programming, Git, HTML, CSS, Markdown, Drupal

Data Analysis Tools: Microsoft Excel, MySQL, Tableau, NumPy, Matplotlib, Seaborn, Plotly

Certifications: United Nations Millennium Fellowship, Pforzheimer Honors College, Python Institute Programming

Languages: English, American Sign Language, Vietnamese, Spanish