

# Melody Nguyen

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## PROFILE

Multidisciplinary technologist combining data science, product strategy, and creative storytelling. Experienced front-end developer with experience in building analytical tools that turn complex data into insights. Passionate about sustainability, open-source learning, and empowering students in STEM. Beyond the code, I enjoy marathon running, filmmaking, and Muay Thai.

## TECHNICAL SKILLS

**Programming & Data:** Python (NumPy, Pandas, Scikit-learn), R, SQL, Java, C

**Analytics & Visualization:** Tableau, Excel, Marimo, Matplotlib, Seaborn

**Web Development:** HTML, CSS, JavaScript (React), Git, GitHub, Google Analytics

**Design & Creative:** Figma, Adobe Creative Suite, Canva, YouTube Studio, DaVinci Resolve

**Certifications:** United Nations Millennium Fellowship, Lubin Business Analytics, Python Institute Programming

**Languages:** English, American Sign Language; learning Spanish and Vietnamese

## PROFESSIONAL EXPERIENCE

### Engineering Intern

Jun 2025 – Present

*Stanford Synchrotron Radiation Lightsource (SSRL)*

*Stanford, CA*

- Developed Python tools to automate and optimize X-ray diffraction data collection across 130+ experimental runs.
- Applied machine learning models and quantitative analysis to improve data accuracy and automate decision-making.
- Collaborated with beamline scientists to load and test material samples in high-temperature phase transitions.

### Product Ambassador

Sep 2024 – Present

*marimo.io (Start-up)*

*New York, NY*

- Built and maintained a Stanford-hosted platform showcasing interactive and reproducible Python notebooks.
- Published research blogs and tutorials highlighting the use of marimo for data visualization, education, and reproducible science.
- Partnered with developers to refine UI/UX, improving engagement for academic and industry users.

### Data Science Intern

Jun 2024 – Aug 2024

*SLAC National Accelerator Laboratory, U.S. Department of Energy*

*Stanford, CA*

- Analyzed over 60 photovoltaic (PV) datasets from NREL to quantify the effects of extreme weather on solar performance.
- Used marimo notebooks to integrate NOAA temperature, wind, and irradiance data for cross-regional trend visualization.
- Created interactive, visual models and heatmaps to support the REGROW project's renewable grid resilience forecasts under outlier weather conditions.

### Website Developer & Business Development Intern

Mar 2023 – Jun 2024

*SLAC National Accelerator Laboratory (Applied Energy Division)*

*Stanford, CA*

- Redesigned 5+ web platforms (Arras Energy, GRIP) to enhance usability, accessibility, and alignment with DOE branding.
- Developed digital marketing materials and crafted a comprehensive user manual to increase platform adoption.
- Analyzed website analytics to optimize engagement and coordinated outreach strategies to promote sustainable technology adoption.

## EDUCATION

### Pace University, Seidenberg School of Computer Science

May 2026

*Bachelor of Arts (BA) in Computer Science | Minor: Business | Honors & Dean's List | GPA: 3.81*

*New York, NY*

- Relevant Coursework:** Data Science with Python and R, Data Structures and Algorithms, Machine Learning Foundations, Object-Oriented Programming, Mathematical Structures, Algorithms and Computing Theory, Computer Organization, Research Methods
- Business Analytics, Marketing Research, Economics, Financial & Managerial Accounting, Environmental Science, Global Politics of Disarmament and Arms Control.

## INITIATIVES & IMPACT

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<b>Google Developers Group on Campus</b> <i>Marketing Lead, Pace University</i>	Sep 2025 – Present New York, NY
<ul style="list-style-type: none"><li>• Led digital engagement and marketing strategy for the developer community, increasing workshop RSVPs by 200%.</li><li>• Collaborated with technical leads to promote coding workshops, hackathons, and developer speaker events.</li></ul>	
<b>Institute for Operations Research and Management Science (INFORMS)</b> <i>President, Pace University</i>	Feb 2023 – Present New York, NY
<ul style="list-style-type: none"><li>• Taught 300+ students Python, R, SQL, Tableau, and Excel through hands-on workshops and competitions.</li><li>• Hosted professional talks with Amazon and Microsoft; awarded “Organization of the Year” for tripling attendance and engagement.</li></ul>	
<b>United Nations Academic Impact</b> <i>Millennium Fellow &amp; Campus Director</i>	Jul 2023 – Present New York, NY
<ul style="list-style-type: none"><li>• Represented student leaders as a delegate and technologist at the UN Economic and Social Council, Youth Forum, and SDGs Action Weekend.</li><li>• Directed a cohort of 15 student founders developing sustainable initiatives within a global network of 4,000+ undergraduates.</li><li>• Introduced Nobel laureate Malala Yousafzai at the 2023 Millennium Campus Network graduation ceremony.</li></ul>	
<b>Educational Equity Initiative</b> <i>Founder &amp; President</i>	Jan 2021 – Present Remote
<ul style="list-style-type: none"><li>• Founded an open-source platform for young women in Vietnam to learn coding, web design, and digital literacy.</li><li>• Mentored 20+ students in STEM and civic leadership, supporting UN-aligned sustainable development projects.</li><li>• Partnered with Stanford’s <i>Science Accelerating Growth and Engagement (SAGE)</i> program to advocate for high school girls pursuing STEM through mentorship and outreach campaigns.</li><li>• Raised \$500 for the Malala Fund to promote girls’ education and community access to technology.</li></ul>	
<b>Jumpstart (AmeriCorps)</b> <i>Corps Member</i>	Feb 2023 – May 2023 New York, NY
<ul style="list-style-type: none"><li>• Delivered early literacy and language development programs to preschool students in low-income neighborhoods.</li><li>• Designed enrichment activities to strengthen reading comprehension and cognitive development.</li></ul>	
<b>Wall Street Journal Case Competition</b> <i>American Marketing Association</i>	Oct 2022 – Dec 2022 New York, NY
<ul style="list-style-type: none"><li>• Developed a 3-year marketing strategy using SWOT and environmental analysis to increase customer retention.</li><li>• Presented actionable insights at the 2022 International Collegiate Conference.</li></ul>	
<b>Economic Society</b> <i>Treasurer, Pace University</i>	Sep 2023 – May 2024 New York, NY
<ul style="list-style-type: none"><li>• Managed organizational budgets, analyzed spending reports, and coordinated academic events on economic and policy issues.</li></ul>	

## AWARDS & HONORS

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**National Science Foundation (NSF) Travel Grant:** selected recipient for SuperComputing 2024 Conference.

**United Nations Millennium Fellowship:** recognized for advancing UN Sustainable Development Goals.

**Dean’s List:** Pace University, Seidenberg School of Computer Science (2022–Present).

**Pforzheimer Honors College Scholar:** recognized for academic excellence and research leadership.

**Principal’s Leadership Award:** for founding the Women Empowerment Initiative, promoting social activism.

**Biliteracy Certification in American Sign Language (ASL):** for demonstrated fluency and cultural proficiency.