# Melody Nguyen

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## EDUCATION

**Pace University, Seidenberg School of Computer Science**                                  New York, NY
*Bachelor of Arts (BA) in Computer Science | Minor: Business | Dean's List, Honors College | GPA: 3.81*        *May 2026*
- Courses: Data Science with Python and R, Data Structures and Algorithms, Object-Oriented Programming, Computer Organization, SQL for Business, Mathematical Structures, Economics, Marketing Research

## TECHNICAL SKILLS

**Programming**: Python (Scikit-learn), Java, Design (HTML, CSS, JavaScript: React), C, R, Databases (SQL, Excel)
**Certifications:** United Nations Millennium Fellowship, Python Institute Programming

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern**                                                        Jun 2025 – Present
*Stanford Synchrotron Radiation Lightsource (SSRL)*                                          *Stanford, CA*
- Developed Python tools to automate and optimize X-ray experiments for materials research
- Enhanced real-time scanning logic and data workflows in collaboration with beamline scientists

**Product Ambassador**                                                            Sep 2024 – Present
*marimo.io*                                                                      *New York, NY*
- Designed a Stanford site promoting computation with reactive and reproducible Python notebooks
- Published research blogs to showcase interactive data and app-building tools

**Data Science Intern**                                                           Jun 2024– Aug 2024
*SLAC National Accelerator Laboratory, Department of Energy*                                  *Stanford, CA*
- Analyzed 60+ PV datasets to enhance intelligent planning algorithms for renewable grid optimization
- Visualized heatwaves and temperature trends for energy development using NumPy, Pandas, Matplotlib

**Website Developer**                                                            Mar 2023 – Jun 2024
*SLAC National Accelerator Laboratory, Department of Energy*                                  *Stanford, CA*
- Marketing resources within Applied Energy Department to support research funds and operations
- Revamped 5+ user interfaces and training sites for simulation software and deployments of power systems
- Crafted user manuals to promote sustainable tech adoption, cost savings, and reduce electrical consumption

## PROJECTS

**Health Connect** | *React Native, Node.js, Firebase, Figma*                                Feb 2025 - Present
- Built a full-stack web and mobile app for real-time medical resources with user authentication and doctor booking
- Designed an intuitive user interface with Figma, enhancing accessibility and user experience

**Wall Street Journal Case Study** | *MySQL, Microsoft Excel*                                Sep 2022 - Apr 2023
- Conducted SWOT analysis and consumer research for a 3-year marketing strategy to increase retention rates
- Proposed customer membership renewal through revamped platforms and alumni targeted promotions

## LEADERSHIP

**Institute for Operations Research and Management Science**                                Feb 2023 - Present
*President at Pace University*
- Taught over 200 college students Python, R, SQL, Tableau, Excel with interactive workshops and competitions
- Awarded "Organization of the Year" for tripling attendance, events, and growing media presence to 700+ followers

**Educational Equity Initiative**                                                  Jan 2021 - Feb 2025
*Founder and President*
- Mentored 20 high schoolers in STEM careers, organizing female leadership panels on social activism
- Coordinator of donation drives for migrant families and students in NYC and raised $300 for the Malala Fund

**United Nations Academic Impact**                                                 Jul 2023 - May 2024
*Campus Director and Millennium Fellow*
- Led Civic Leadership Program for 15 sustainable development projects – 6x youth delegate at UN Head Quarters
- Introduced Malala Yousafzai for 2023 graduation, inspiring over 3,000 MCN fellows in support of girls' education