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*

- Programmed autonomous experiments for material research, using Python to optimize data acquisition
- Built backend tools for real-time scan decisions; refined peak detection and control logic
- Partnered with scientists to improve system efficiency through data analysis and workflow tuning

Product Ambassador — Sep 2024 – Present

marimo.io — *New York, NY*

- Designed a Stanford site for marimo that enables computing with reactive and reproducible Python notebooks
- Published scientific blogs to showcase interactive data and app-building tools for students and researchers

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 renewable energy trends to study heatwaves and temperature rises using NumPy, Pandas, Matplotlib

Website Developer — Mar 2023 – Jun 2024

SLAC National Accelerator Laboratory, Department of Energy — *Stanford, CA*

- Marketing resources within the Applied Energy Department to support funds and operations for researchers
- Revamped 5+ training sites and simulation software to improve interface and test deployments of power systems
- Crafted a user manual to promote sustainable tech adoption and cost savings via reduced 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