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 — June 2025 – Present

Stanford Synchrotron Radiation Lightsource — *Stanford, CA*

- Designed autonomous experiments for material research, using Python automation to optimize data acquisition
- Defined product strategy for backend tools enabling real-time experiment decisions under uncertainty
- Collaborated with scientists and engineers to gather user feedback, improve scan logic, and refine peak detection
- Analyzed user needs, experiment data, and scanning trends to improve system efficiency and research outcomes

Product Ambassador — September 2024 – Present

marimo.io — *New York, NY*

- Supported go-to-market strategy for Stanford-hosted marimo platform, simplifying reproducible Python notebooks
- Published product-focused blogs to communicate use cases and customer benefits to students and educators
- Worked cross-functionally with developers and researchers to improve user experience and educational outreach

Data Science Intern — June 2024– August 2024

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

- Conducted user-focused data analysis of 60+ PV performance datasets to support intelligent product planning
- Identified trends in extreme weather impact on energy systems using Pandas, NumPy, and Matplotlib
- Contributed insights to simulation tools that informed development of grid-resilience optimization software

Website Developer, Marketing Intern — March 2023 – June 2024

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

- Revamped 5+ training and product sites, creating intuitive and responsive designs using HTML, CSS, and JS
- Collaborated with UX designers and researchers to launch product demos and user documentation
- Defined technical product specs for Arras Energy, improved front-end tools, and helped streamline user onboarding
- Produced and tested a product manual to increase accessibility and promote clean energy adoption

PROJECTS

Health Connect | *React Native, Node.js, Firebase, Figma* — February 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
- Integrated Firebase for seamless data management and scalable architecture

Wall Street Journal Case Study | *MySQL, Microsoft Excel* — September 2022 - April 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

Educational Equity Initiative   January 2021 - Present

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

Institute for Operations Research and Management Science   January 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

United Nations Academic Impact   July 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