Melody Nguyen

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TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Scikit-learn, SciPy, pyFAI, fabio), Java, C, R, SQL
Web & Tools: HTML, CSS, JavaScript (React), Excel, Tableau, Git, GitHub, Google Analytics
Certifications: United Nations Millennium Fellowship, Python Institute Programming

PROFESSIONAL EXPERIENCE

Machine Learning Intern
Stanford Synchrotron Radiation Lightsource (SSRL)
Jun 2025 – Present
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
marimo.io
Sep 2024 – Present
New York, NY
- Designed a Stanford-hosted site promoting computation using reactive and reproducible Python notebooks
- Published research blogs to showcase interactive data and app-building tools

Data Science Intern
SLAC National Accelerator Laboratory, Department of Energy
Jun 2024– Aug 2024
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

Business Development Intern
SLAC National Accelerator Laboratory, Department of Energy
Mar 2023 – Jun 2024
Stanford, CA
- Marketing resources within the Applied Energy Department to support research funding and operations
- Revamped 5+ user interfaces and websites for simulation software and deployments of power systems
- Crafted user manuals to promote sustainable tech adoption, cost savings, and reduce electrical consumption

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, Mathematics for Machine Learning, Research Methods, Object-Oriented Programming, Computer Organization, Mathematical Structures
- Quantitative Analysis, SQL, Business Analytics, Economics, Accounting, Marketing Research

INITIATIVES & IMPACT

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

United Nations Millennium Fellowship
Jan 2021 – Present
Founder, President, and Campus Director
- Led 15 sustainable development projects and introduced Malala Yousafzai at graduation for 3,000 fellows
- Mentored 20+ students in STEM careers through leadership panels, civic engagement, and education programs
- Organized donation drives for NYC migrant families and raised $300 for the Malala Fund

Wall Street Journal Case Study
Sep 2022 – Apr 2023
Marketing Analyst — MySQL, Microsoft Excel
- 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