Nathan Liu

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EDUCATION

New York University   New York, NY
Bachelor of Arts in Computer Science and Data Science | Dean's List   *Sep. 2024 – May 2027*
Relevant Coursework: Data Structures, Computer Systems Organization

EXPERIENCE

Full-Stack Artificial Intelligence Developer   June 2025 – August
Amazon China   *Remote*
- Built a crypto trading assistant with real-time price tracking, ML predictions, and sentiment analysis
- Engineered a full-stack system with 12 REST APIs using React frontend and Flask backend
- Trained a linear regression model via scikit-learn for price prediction with 30-day training data
- Strengthened system design and full-stack skills via weekly mentorship with an Amazon engineer

Data Science Intern   Nov. 2024 – Present
NYU Entrepreneurial Institute   *New York, NY*
- Built automated data enrichment pipeline in Google Apps Script to augment 2.6k+ founder and startup records
- Implemented NYU school identification script using the Google Custom Search API and Perplexity AI API
- Standardized and validated 20+ data fields to ensure dataset accuracy and consistency

Developer   Feb. 2025
HackNYU   *Brooklyn, NY*
- Selected as 1 of 100+ participants in hackathon sponsored by Google, Capital One, and NordVPN
- Designed and provided functionality for a healthcare app's UI via JavaFX to improve user-friendliness
- Pitched MVP to 5+ software engineers from Nvidia, Apple, and Amazon

Program Manager   2021 – 2024
Seeds of Change English Enrichment Program   *Saratoga, CA*
- Recruited 13 local student instructors & 100+ Taiwanese students from 4+ schools in rural areas
- Developed program website via Google Sites to centralize program information and resources
- Structured curriculum on U.S. culture and English basics using Google Classroom and Excel
- Led online, monthly classes of 15+ students via interactive Google Slides lessons

Private Math & Computer Science Tutor   June 2025 – Present
Wyzant   *Remote*
- Tutored 12+ middle school and high school students in programming and math fundamentals
- Managed scheduling, parent communication, and individualized learning plans
- Maintained 5.0-star rating across 60+ reviews with 90+ hours tutored

PROJECTS

AI Crypto Trading Assistant | *React, Python, Flask*   June 2025 – August
- Built a responsive trading dashboard pulling live crypto data from Yahoo Finance every 10 seconds
- Scraped the 10 most recent Reddit headlines for BTC/ETH and analyzed sentiment using TextBlob
- Implemented caching mechanisms to reduce API calls by 70%

NYU Data Science Club Datathon 2025 | *Python, Pandas, Scikit-learn, Matplotlib*   April 2025
- Processed 1K+ user profiles and 900+ unique places to construct personalized taste vectors.
- Applied t-SNE, HDBSCAN, and K-Means to uncover and compare 2+ user clusters.
- Interpreted clusters using pivot places and tags to reveal behavior trends across cities.

Personal Website | *HTML, CSS, JavaScript*   June 2025 – Present
- Developed a personal portfolio website to showcase experience, projects, and campus involvement
- Implemented responsive UI/UX design with CSS flexbox and interactive JavaScript animations

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, C/C++, R
Frameworks: React, Flask, JavaFX
Developer Tools: Git, VSCode, Eclipse, IntelliJ, Cursor, Google Colab, Jupyter Notebooks
Libraries: pandas, NumPy, Matplotlib, Axios, Scikit-learn, TensorFlow