CHUHAN ZHANG

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EDUCATION

New York University — **New York, NY**
B.A. in Mathematics and Computer Science — *Expected: May 2027*
- **Cumulative GPA:** 3.9/4.0|**Competitions:** Jane Street Real-Time Market Data Forecasting (Kaggle) - Silver Medal (2025)
- **Coursework:** Computational Finance, Computer Systems, Data Structures & Algo, Discrete Math, Financial Accounting, Linear Algebra

PROFESSIONAL EXPERIENCE

Ping An International Money Brokerage Co. — **Shenzhen, China**
Bond Trading Analyst — *May 2025 – Present*
- Executed high-volume data entry of client bond quotes in trading systems efficiently, ensuring rapid turnaround times and data accuracy
- Supported trading desk operations by organizing and maintaining comprehensive real-time pricing information for senior brokers
- Acquired knowledge of Chinese bond markets, key differences in bond classifications and trading practices compared to Western markets

LLM Quant — **New York, NY**
Developer — *Feb 2025 – Present*
- Designed AI-driven quantitative research tools including multi-agent trading systems specifically optimized for financial applications
- Maintained multiple public repositories with 1,200+ stars across projects, focusing on publishing quantitative finance knowledge
- Established a collaborative ecosystem with 283+ followers, facilitating knowledge sharing through tutorials and updates on AI in finance

Schmidt Lab 2.0 — **Philadelphia, PA**
Coordinator — *Jul 2023 – Dec 2023*
- Collaborated with 12 cross-school members to develop computer vision approaches for tracking bird behavior in an automated aviary
- Managed data for 18 subjects using pattern recognition algorithms to track precise movements across 1,000+ hours of video recordings
- Supported the development of novel non-invasive aviary for linking recorded subject's behavioral context to recorded neural dynamics

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Tandon Vertically Integrated Project Research New York University — **New York, NY**
ML Researcher — *Jul 2025 - Present*
- Executed projects comparing AI-assisted coding approaches in SDLC using GitHub Co-pilot X and GPT-4 within fintech environments
- Conducted analysis on AI-assisted code translation across language frameworks, measuring quality improvements via SonarQube
- Established framework for quantifying AI impact on code quality, contributing to joint whitepaper on enterprise AI adoption in fintech

Market Maneuvers — **New York, NY**
Developer — *May 2025 - Present*
- Built an interactive Python simulation engine implementing stochastic price movement algorithms and event-driven market reactions
- Modeled macroeconomic events and player behavior using probability distributions and back tested strategies to refine game balance
- Stimulated real-world financial decision-making, incorporated blockchain-style stablecoin/token mechanics, and portfolio diversification

Stern Program for Undergraduate Research New York University — **New York, NY**
Developer — *Nov 2024 – Present*
- Built deep learning models to process complex weather data for storm forecasting systems under Dr. Cynthia Zeng & Dr. Elynn Chen
- Researched machine learning solutions by combining historical storm data and atmospheric patterns to increase forecast accuracy by 14%
- Applied transformer models to climate prediction challenges and achieved a 70-77% skill improvement over current baseline models

World Quant Data Science Lab — **New York, NY**
Participant — *Oct 2024 – Mar 2025*
- Participated in a data science program focused on real-world applications, and statistical analysis through projects and weekly assignment
- Developed foundational knowledge of machine learning concepts through guided projects focused on regression and data preprocessing
- Applied data-driven decision-making principles through case study analysis of real business scenarios and created analytical frameworks

Python Stock Portfolio Tracker — **New York, NY**
Participant — *Jul 2024 – Oct 2024*
- Programmed a Python-based Stock Portfolio Management System to track and manage stock holdings with object-oriented programming
- Integrated error handling mechanisms, bilingual (English/Mandarin) validation, and reporting capabilities for enhanced user experience
- Structured key functionalities including calculating total portfolio value and technical trading indicators using yfinance API historic data

Glioblastoma (GBM) Diagnostic Biomarkers SNP Research — **Cleveland, OH**
Primary Investigator (Mentored by Dr. Roberto Aguilar) — *May 2021 – Feb 2023*
- Submitted a research paper and delivered an oral presentation for JSHS and communicated genetic analysis to 12 professional researchers
- Identified potential biomarkers from tumor cell behaviors and achieved 85% accuracy in pattern detection for early stage GBM cancer
- Utilized bioinformatics tools to analyze relationships between genes and processes over 100,000 data points to identify significant trends

ADDITIONAL INFORMATION

- **Skills**: Japanese (fluent), Mandarin (native), Bloomberg, HTML/CSS, Java, MATLAB, Microsoft Office Suite, R, SQL, Swift, Python
- **Interests**: Fables, Figure Skating, Film, Jane Austen, Japanese Literature, Jazz, Museums, Neuroscience, Poetry, Tennis, True Crime