

CHASE GILLIS

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EDUCATION

New York University

New York, NY

Bachelor of Arts in Computer Science, Minor in Data Science

May 2025

- **Coursework:** Algorithms; Data Structures; Data Analysis; Operating Systems; Causal Inference; Computer Systems; Computer Security; Linear Algebra; Calculus II; Statistics; Discrete Math; Macro & Micro Economics; Spanish IV
- **Organizations:** Zeta Psi Fraternity (President); Tech@NYU (Project Lead); Google Developer Student Club (Social Media Manager); NYDM (Team Captain); P2B1 (First-Gen Students); Tech Treks; BUGS@NYU; Varsity Wrestling; Stern Rugby

EXPERIENCE

U.S. CENTURY BANK

Miami, FL

Software Engineer & Data Scientist Consultant

May 2024 - Present

- Designed profitability model using SQL, Python, and Power BI to rank accounts and suggest changes, increasing revenue
- Built a cybersecurity system that periodically verifies file integrity using hash comparisons and sends alerts of tampering
- Developed Python-based archive system to relocate files older than a specified date, optimizing system performance

NYU 404 FITNESS

New York, NY

Supervisor & Data Scientist

Sep 2022 - Present

- Optimized gym hours and staffing schedules using Python, Pandas, and Excel, aligning with budget constraints
- Initiated an anti-theft campaign, reducing theft by up to 50% through strategic signage and staff rotation
- Selected as the youngest-ever supervisor to coordinate a team of 50+ attendants, handling hiring and scheduling

JPMorgan Chase & Co. Quantitative Research Virtual Experience Program

Remote

Quantitative Researcher

Jul 2024

- Completed a simulation on quantitative research methods, data analysis, and predictive modeling in a real-world context
- Analyzed loan data to estimate a customer's probability of default using logistic regression, enhancing risk assessment
- Applied dynamic programming, log-likelihood, and MSE models to categorize FICO scores for default prediction

SCALE AI

Remote

Software Engineer - AI Consultant

Jan 2024 - Apr 2024

- Conducted reviews of AI-generated content and code, ensuring compliance with company standards
- Enhanced AI models by identifying efficient algorithms in AI-generated code, improving content accuracy

PROJECTS

BITCOIN FORECAST LSTM MODEL

Jul 2024 - Present

- Designed an LSTM neural network model to predict Bitcoin prices and ROI for a tournament hosted by Trilemma Capital
- Trained my model on historical closing prices, optimized with Adam and mean squared error loss function over 100 epochs

PAIRWISE TRADING ALGORITHM & ENGINE

Jun 2024 - Jul 2024

- Developed Full-Stack trading engine and strategy using correlation, cointegration, stationarity, Alpaca API, and Streamlit
- Created visualizations for price ratios, dynamic moving averages, z-scores, and an average Sharpe Ratio of 1.48

PRECEDENT PARSER

Oct 2023 - Dec 2023

- Led a team to create a web scraper and website using Python and HTML/CSS, aiding legal research for precedent cases
- Utilized Open-AI and ScrapeOPS APIs to search data, providing citations, summaries, probabilities, and case strategies

ADDITIONAL INFORMATION

- **Languages:** Python; C++; Java; TypeScript; JavaScript; SQL; Shell Scripting (Bash, Linux); HTML/CSS
- **Technologies:** AWS EC2; Git; React; Node; TensorFlow; MySQL; Power BI (DAX); Excel; Adobe Premiere/After Effects
- **Awards/Certifications:** Lyft Forage Certificate; Dean's List 3x; IAAC Scholar-Athlete; Sommers Scholarship; CPR/AED
- **Interests:** Wrestling (Individual and Team State Champion/5x All-American); Chess; Fishing; Spikeball; Motocross