

# 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

### TECH@NYU

New York, NY

*Former Project Lead*

*Feb 2023 - Present*

- Mentored a 12-student cohort (5% acceptance rate) in four software engineering projects, enhancing programming skills
- Initiated development of a website to archive and showcase past projects, fostering community and alumni engagement
- Organized office visits to companies like Epic Games and Netflix for practical learning experiences

### 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 cumulative returns that average 15%

### 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:** Java; Python; C++; 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 (State Champion/5x All-American/2 Team State Titles); Chess; Fishing; Spikeball; Motocross