Max Cheng Zhang

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EDUCATION

Boston College Morrissey College of Arts & Sciences | Chestnut Hill, MA   August 2023 – May 2027
Bachelor of Science in Computer Science & Bachelor of Arts in Mathematics | Minor: Data Science | Dean's List (2023-2025)
- Relevant Coursework: Introduction to Abstract Algebra, Probability, Introduction to Abstract Math, Linear Algebra, Multivariable Calculus, Logic and Computation, Computer Systems, Computer Organization

EXPERIENCE

Boston College | Chestnut Hill, MA | Computer Science Teaching Assistant   August 2025 – Present
- Designed and led interactive coding workshops focused on Python programming, improving student engagement by 20%
- Efficiently managed grading, support, and session scheduling for 30+ students, streamlining administrative workflow.
- Facilitated technical Q&A during office hours, supporting various learning needs and elevating student satisfaction scores

Traxys LLC | New York City, New York | Information Systems Intern   June 2025 – August 2025
- Developed Python web scraper APIs for financial data collection as part of a larger Market Data Central Database, automating a pre-existing manual system, reducing manual data input by 100%.
- Automated inventory allocation by integrating Fintrade with external systems for third-party ease-of-access, reducing the need for manual data entry on our frontend systems and increasing efficiency by 90%.
- Worked cross-functionally with software engineers and data analysts to deploy production-ready APIs, initiating and delivering two departmental automation solutions adopted by the team

PROJECTS

Python Foreign Exchange + Interest Rate Web Scraper | Traxys | *Python, FastAPI, BeautifulSoup*   June 2025 – August 2025
- Automated FX and interest rate data collection from 15+ financial websites using FastAPI endpoints.
- Utilized BeautifulSoup and recursive parsing to extract data from complex, nested HTML structures and embedded JSON format responses.
- Replaced 100% of manual data-entry processes by delivering scheduled and on-demand scraping capabilities accessible through internal REST APIs connected to a wider system of centralized Market Data.

Fintrade Integration: Inventory Automation | Traxys | *SQL, Stored Procedures, Azure*   June 2025 – August 2025
- Developed SQL-driven backend processes to translate and handle custom inventory requests from third-party partners, enabling seamless interaction with internal systems without exposing direct database and Fintrade access.
- Automated inventory allocation using First-In-First-Out (FIFO) logic, ensuring real-time, accurate matching and fulfillment based on request criteria.
- Enabled continuous integration with Fintrade by updating inventory records programmatically, reducing manual intervention by 90% and operational risk significantly.

Data Science Final Project | *Python, Numpy, Pandas, Matplotlib*   May 2025
- Analyzed a comprehensive CSV dataset containing global video game sales, leveraging pandas and numpy for in-depth data cleaning, statistical analysis, and trend identification.
- Generated 20 distinct data visualizations with Matplotlib, illustrating and presenting correlations between game traits (e.g., developer, publisher, genre) and market performance.

SKILLS

- Technical Skills: Java, Python, C, C++, T-SQL, Azure, Stored Procedures, React.js, PyTorch, REST APIs, Git, OOP
- Proficient in implementing and applying common data structures (arrays, trees, hash tables, graphs) and algorithms (sorting, searching, graph, dynamic programming).
- Soft Skills: Analytical Reasoning, Technical Communication, Cross-team Collaboration, User Empathy
- Languages: Mandarin (Fluent), English (Native)

CERTIFICATIONS & AWARDS

- Google Data Analytics Professional Certificate: Proficient in SQL, R, Tableau, and data visualization. (2024)
- USACO Gold Division (2021)
- Canadian Computing Competition Senior Division Certificate of Distinction (2021)