Justin / Ziheng Zhong

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EDUCATION

University of Toronto St. George Campus, Toronto, Ontario, Canada   09/2021 – 07/2025

Arts and Science Bachelor; Statistics and Mathematics Double Major   CGPA: 3.0 / 4.0

New York University, New York, United States   09/2025 – 05/2027

Master of Science; Management and Analytics   CGPA: 4.0 / 4.0 (Fall 2025 Semester)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, SQL, R.
- **Frameworks & Platforms:** Spring Boot.
- **Tools:** Git, Maven, OracleDataModeler/SQLDeveloper.

WORK EXPERIENCES

XiaoMi - Proretail App - Clue Analysis Function Iteration   **Java**

Backend Developer   07/2024 – 08/2024

- Added three types of clue statistics modules along with detailed drill-down information, including comparative analysis of clue ownership by store and employee, as well as detailed data and related content for each clue.
- Modified the logic of an existing clue filter condition to support more detailed filtering requirements.
- Added two new clue filtering conditions and a new interface, which improves the overall response time of calculating the total number of clues by approximately 100 ms after reading the clues from the database, through optimized SQL logic and the elimination of unnecessary data transmission.

PROJECTS

Media Manager using the Spotify API (Project Link)   **Java**

Team Leader   09/2023 – 12/2023

- API testing: Tested the usability of Spotify in Java, filtering required commands, and establishing a shortcut to obtain Spotify tokens through hoppswitch.io.
- Developed all GUI based on Java Swing library.
- Main program coding and some usecases coding: addsong, searchsong.

NASA Space App Challenge (Hackathon Event) (Project Link)   **Java / JavaScript**

Team Leader   09/2025 – 10/2025

- Designed and implemented the primary Java backend using Maven for dependency management, including building REST-style API endpoints to fetch, process, and serve data from multiple official NASA APIs.
- Developed core data-processing logic to support real-time and manual data fetching, ensuring reliable handling of large-scale astronomical datasets and error handling for missing or null values.
- Collaborated with simulation-related backend logic implementation, supporting Monte Carlo based impact simulations and basic orbital dynamics calculations to model potential asteroid impact scenarios under user-defined parameters.
- Collaborated with frontend development by defining data structures and API contracts, enabling visualization of asteroid trajectories, fireball locations, hazard assessments, and statistical trends through an interactive dashboard interface.

LEADERSHIP

FRC - FIRST Robotics Competition   **Beijing，China**

Team Leader   07/2017 – 06/2021

- Founded and captained Team 8204 in my high school; Previously served as Robot Driver and Engineer for Team 5451.