

Yi Zhang

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EDUCATION

Northeastern University, San Jose, California

Master of Science in Information Systems, **GPA: 4.0/4.0**, 01/2025 - 05/2027(Expected)

Coursework: Application Engineering and Development, Application Modeling & Design, Python for Information Systems, Data Science Engineering Methods & Tools(Machine Learning)

Shanghai Sanda University, Shanghai

Bachelor of Hospitality Management, 09/2015 - 07/2019

SKILLS

Software Engineering: Object-Oriented Programming (OOP), Design Patterns, MVC Architecture, Unit Testing, Agile/Scrum

Programming languages: Python, Java, C++, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks & Technologies: React.js, Flask, Django, RESTful APIs, JavaFX

Development Tools: Git, Docker, AWS, JUnit

Databases: MySQL, PostgreSQL, MongoDB

Data processing & Analysis: Pandas, Numpy, Matplotlib

Languages: English (Fluent), Chinese (Fluent)

PROJECTS

Data Quality Check & Cleaning Web Tool

Front-end developer, 05/2025 - 08/2025

- Built a fully client-side web application in **JavaScript**, **HTML5**, and **CSS** to validate and clean Excel/CSV data, reducing processing time by **50%**
- Designed modular **JavaScript architecture** with event-driven patterns and centralized state management for data operations
- Developed responsive, interactive UI with real-time data preview and error highlighting, enhancing user efficiency
- Integrated **Papa Parse** and **SheetJS** libraries for CSV/Excel parsing, processing **10,000+** rows with sub-second response

Medication Reminder App Prototype

Team Lead & System Designer, 03/2025 - 04/2025

- Architected user flows and defined system logic for a gamified Figma prototype, aimed at improving medication adherence
- Leveraged user research and usability testing insights to iterate and optimize system interactions
- Designed and implemented UI/UX prototypes, including plant-based reward system and dynamic feedback elements

EXPERIENCE

Founder & President of HuskyCode Club, San Jose, California

Northeastern University, 09/2025 - Present

- Founded and led a **80+** member student coding club, fostering technical problem-solving skills and algorithmic thinking
- Taught online sessions on core **Data Structures and Algorithms** with guided LeetCode problem-solving exercises
- Collected and analyzed member feedback to identify skill gaps and optimize session design
- Designed and ran **2 weekly in-person** workshops for LeetCode and interview-style problem practice
- Built and managed the club's **GitHub** site to centralize resources for learning, coding practice, and technical reference

Data Analysis Coordinator, Shanghai

Sanofi Investment Co., Ltd. 05/2022 - 02/2024

- Developed data visualization pipelines using **Power BI**, optimizing **\$1M annual budget**, supporting strategic decision-making
- Engineered a migration to Excel **Pivot Tables** based on sales feedback, improving usability and preventing **30%** budget cuts
- Conducted data analysis using advanced Excel to identify key customer opportunities and directly support business strategy

Business Operations Specialist, Shanghai

Pfizer Investment Co., Ltd. 06/2020 - 05/2022

- Conducted large-scale data analysis on travel/expense data using **advanced Excel/VBA** to generate executive reports, informing CEO-level strategy
- Streamlined and managed meeting application lifecycle, processing **1,075+** applications (**up to \$850K**) in **12 months**
- Trained **200+** employees on meeting processes, reducing processing time by **20%**
- Coordinated project logistics for Pfizer's CIIE exhibition, demonstrating project execution and cross-functional coordination

HONORS & CERTIFICATIONS

- Discovery Award:** Student Research & Innovation Showcase, Northeastern University, 04/2025
- Certificate:** Data Structures and Algorithms, Amazon, 01/2025
- Certificate:** Programming Foundations: Object-Oriented Design, LinkedIn Learning, 03/2025
- Certificate:** Learning SQL Programming, LinkedIn Learning, 03/2025