MAGGIE CHEN

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EDUCATION AND HONORS

University at Buffalo, State University of New York, School of Engineering and Applied Sciences   **Buffalo, NY**
Bachelor of Science in Computer Science, Minor in Mathematics   *August 2022 - Expected May 2025*
Awards and Honors: Summa Cum Laude | Leaders in Excellence Scholarship | Visa Inc. Consult for Change Case Competition First Place
Binghamton University, State University of New York, School of Management   **Binghamton, NY**
Bachelor of Science in Business Administration, Concentration in Management Information Systems   *August 2021-May 2022*

PROFESSIONAL EXPERIENCE

Visa Inc.   **Highlands Ranch, Colorado**
Software Engineer Intern   *May 2024 - August 2024*
- Revamped an outdated mock service application with a more centralized system that is 5 times faster and supports the varied types of request/response contractual testings for more than 10 teams
- Worked on intensive Java development using Spring Boot, Maven, Postman, and Kafka to revamp the highly performant and easily configurable application
- Engaged in agile development in collaboration with other engineers on complex code through daily stand-ups and sprint planning

University at Buffalo, School of Engineering and Applied Sciences   **Buffalo, NY**
Undergraduate Teaching Assistant - Software Quality in Practice (CSE306)   *August 2024 - Present*
- Conducting lab sessions twice weekly for groups of 30+ students, providing assistance in lab assignments
- Supported 80+ students in debugging sessions and applications of various tools including GNU GDB, gprof, gcov, Callgrind, and Git to ensure knowledge in software quality techniques

GHub, The Research Foundation for the State University of New York   **Buffalo, NY**
Software Developer   *October 2023 - June 2024*
- Transformed pre-existing scientific code into functional tools for deployment on GHub (theghub.org), enhancing accessibility and usability for the scientific community
- Collaborated with current scientists to understand their tools, facilitating the reformatting of code for archival on GHub. Implemented user interfaces to streamline tool utilization and data upload functionalities.
- Leveraged multiple APIs to enhance functionality and integrated widgets using Python to facilitate seamless user interactions, improving data upload and overall tool usability

FactSet   **New York, NY**
Product Management Fellow   *February 2024 - April 2024*
- Attended weekly professional development workshops with professionals from FactSet to contextualize product management concepts
- Learned fundamentals such as market research, customer personas, and launching the product through projects

PROJECT

AdoptionAllies
- Led the development of AdoptionAlliess at a hackathon that allows users to adopt their perfect pet by filtering based on preferences
- Employed Django as the database framework and Python for the backend, ensuring a robust and scalable architecture
- Implemented frontend features using HTML, CSS, and JavaScript, delivering a user-friendly interface for seamless user interactions

CreativeHub: Notetaking Application
- Developed a full-stack application using PHP, Javascript, and SQL, implementing user authentication and secure database storage
- Designed and implemented features for note-taking, task management, and calendar integration to improve user productivity

Song and Movie Rating Calculator
- Constructed a robust program in Java to read and analyze text files containing information about songs and movies
- Implemented advanced features such as calculating average ratings and providing insightful data analysis

Conway's Game
- Developed a C program to simulate Conway's Game of Life, implementing the rules for cell evolution over multiple generations
- Utilized multi-dimensional airways to represent the grid of cells and efficiently computed generational changes
- Conducted extensive testing, including still lifes and oscillators, and incorporated animation for debugging.

ADDITIONAL INFORMATION

Involvement: IT Intern at The National September 11 Memorial and Museum, Peer Mentor at School of Engineering, UX Design Fellow at America on Tech, Cybersecurity Fellow at NBCUniversal, Student Assistant at Math Department, Website Overhaul Intern at ACDN
Technical Skills/Tools: Python, Java, C, Javascript, SQL, React, Tailwind CSS, PHP, OCaml, ARM Assembly, MIPS Assembly, Canva, Django, MongoDB, IntelliJ, VSCode, XCode, Flask, TCP Socket, Docker, Maven, Postman, Figma
Languages: Native and Bilingual in Chinese (Mandarin)