

JESSICA CAI

jesscai006@gmail.com • (518) 253-3433

EDUCATION

Carnegie Mellon University

Information Systems (Intended Minor in Software Engineering)

Pittsburgh, PA

Expected May 2028

- GPA: 3.53/4.0 | Concentration: Data Science Analytics
- Relevant Coursework: Concepts of Mathematics (21-127), Fundamentals of Programming (15-112)

Seven Lakes High School

High School Diploma

Katy, TX

May 2024

- GPA: 4.74/5.0 (weighted) | 3.98/4.0 (unweighted) | Class Rank: 66/868
- Relevant Extracurriculars: National Honor Society, Student Council, UNICEF, Technology Student Association

EXPERIENCE

7C Engineering

Engineering Intern

Houston, Texas

January 2024 - May 2024

- Collaborated with project manager and coworkers, gained hands-on experience with Siemens software, using Python to manipulate 3D models and translate industry-specific file types
- Researched and formulated analytical predictions for the 2024 offshore oil market and presented findings

The Tutoring Center at Greentrails

Academic Tutor

Katy, Texas

August 2023 - April 2024

- Utilized interactive teaching methods to teach students (elementary to 11th grade) math and English, enhancing understanding and improving grades with professionalism and patience

PROJECTS

- Fundamentals of Programming (2024): Developed a 3D shape editor with the CMU Graphics package, featuring full-fledged 3D viewport rotation and simple user interaction through sophisticated object-oriented design
- Wind Turbine forecasting (2024): Researched closely with a Google traffic analyst to synthesize energy forecast research on local Texas wind farms. Utilizing wind speed correlation and extrapolation methods
- Carbon Credit Market on Emissions (2024): Analyzed credit market seasonality pattern and evaluated the effectiveness of EU carbon credit policies in combating climate change, via linear and time series regression
- Data Structures Honors (2022 - 2023): Led and participated in two programming 12-week projects; employed object-oriented structure, game logic implementation, and user interface graphics in Java

AWARDS AND RECOGNITIONS

- Dietrich College of Humanities and Social Sciences - Fall 2024 Honors Dean's List
- Fundamentals of Programming Fall Showcase (2024): Selected as 1 of 10 students to demonstrate term project at course showcase out of 500+ students in course
- Facemoji & User Experience Association (UXA) Case Competition (2024): Top 5 Finalist placement - team business analytics presentation, proposing improvements for in-app experience tuned to market-specific users
- Technology Student Association Data Science & Analytics - Texas State: 2nd place, Finalist (2024)
- Technology Student Association Data Science & Analytics - Texas State: 8th place, Semi-finalist (2023)

VOLUNTEER EXPERIENCE

- Bridge of Hearts - ESL Tutor (2023 - 2024): Collaborated with instructors team to create an accent reduction and comprehension program; enhancing the language-speaking skills of 150 adult Chinese immigrants
- Link Nonprofit - Graphic Designer (2021 - 2022): Created flyers for healthcare fairs and enhanced the organization's online connection in the low-income patient community

SKILLS

Programming Languages: Java | Python | HTML | Javascript

Technical Knowledge: Adobe Suite (Illustrator, Photoshop, Animate), Microsoft Office Suite

Interpersonal Skills: Communication, Teamwork, Leadership, Analytical Skills