

Shaoyuan (Eren) Chang

Orlando, FL | (321) 888-9298 | changsu@ufl.edu

EDUCATION

University of Florida, Herbert Wertheim College of Engineering | **May 2026**

Bachelor of Science in Computer Science with Mathematics Minor | Gainesville, FL

- GPA: 3.97
- Dean's List: Fall 2022, Spring 2023, Fall 2023

Relevant Coursework

- **Computer Science Related**
 - Programming 1 and 2
 - Data Structures and Algorithms
 - Computer Organization
 - Enterprise Software Engineering Practices
- **Machine Learning Related**
 - AI Fundamentals
 - Intro to Machine Learning

School-Related Projects

- Created a version of Sudoku alongside a team utilizing the *Pygame* library
- Developed *image processing software* with a CLI that could perform tasks such as adding, subtracting two images
- Used *SFML* and *Chrono* libraries to create a version of Minesweeper with timer and recursive reveal
- Implemented an *AVL tree* which allows sorting by student ID
- Implemented simplified version of *PageRank algorithm* with *graph theory and adjacency list*

LEADERSHIP

Chinese American Student Association | August 2023 - May 2024

- **Sports Coordinator**
 - Led and organized intramural sports practices
 - Worked with a team to organize large-scale events
 - Prepared freshman for university life
 - Resulted in improved leadership and interpersonal skills
- **Mid-Autumn & Lunar New Year Advertising Committee Head**
 - Organized a team to advertise for important bi-annual cultural events
 - Established deadlines and intuitive workflows
 - Resulted in a successful event with 800+ people turnout

PERSONAL PROJECTS / RELEVANT EXPERIENCE

Booker | January 2024 - ongoing

- Programmed a script to book a room in a library automatically
- Utilized Selenium, Crontab, and HTML analysis to complete the program
- Accomplished automated daily bookings for self and others for meetings

Student Assistant in Machine Learning and AI | November 2023 - January 2024

- Assisted researchers in topics relating to *Machine Learning, Pattern Recognition, and Signal/Image processing*
- Cooperated in interdisciplinary teams
- Resulted massive speedups in research due to assistance

Unipath | December 2023

- Created a tool which visualizes a chosen place using *Kruskal's algorithm*
 - Includes place to place mapping along with walking ETAs
- Utilized the *PyQT* framework for the GUI
 - Utilized *Networkx* for graphs
- Accomplished speedup in self navigation planning

Discord Music Bot | April 2023

- Created a *music bot in Python* using various libraries in order to play music in a voice channel on the application Discord
- Utilized new Discord elements such as *slash commands, buttons, drop-down menus, view objects*
- Resulted in a tool which allows music playback for private groups without bandwidth issues of public bots

PAST WORK EXPERIENCES

- **Gaucho** - Chima Steakhouse (May - Nov 2023)
- **Kitchen Team Member** - Wafu (May - Aug 2022)

SKILLS

Computer Science, Python, C++, Programming, Data Structures, Algorithms, Computer Organization, Pygame, Doubly Linked List, Image Processing, CLI, SFML, Chrono, Machine Learning, AI, Facial Analysis, Data Scraping, Databases, Data Preprocessing, Neural Network, TensorFlow, Cloud Computing, AWS EC2, Discord, Slash Commands, Buttons, Drop-down Menus, View Objects, PyQT, Enterprise Software Engineering, Agile Methodologies, Design Patterns, Software Architecture, Git, GitHub, HTTP, RESTful Services, SQL, Database Design, DevOps, CI/CD, Automated Testing, Docker, JIRA, Slack, Networkx, Web Technologies, Version Control, Collaboration Tools