

Joe Gravelle

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EDUCATION

B.S. COMPUTER SCIENCE, UNIVERSITY OF FLORIDA

MAY 2021

- Minor: Chinese
- GPA: 3.89/4.0
- Honors Program
- Relevant Courses: Data Structures and Algorithms, Machine Learning in Python, Operating Systems, Databases

CHINESE LANGUAGE FULL IMMERSION

JUN 2019 – AUG 2019

- 8-week, language-pledge study abroad program at the Harbin Institute of Technology in Harbin, China through CET Harbin. Communicated in only Mandarin for 8 weeks.

SKILLS

- C++: Completed projects for Programming Fundamentals II and Data Structures in C++.
- Java: Teaching Assistant for Java course. Used Java to create an interactive phone app in android studio.
- Python: Completed projects for Machine Learning in Python and Performance Python courses.
- SQL: Learned how to use SQL to design databases and make effective queries in Databases course.
- Fluent in Spanish: Attended a Spanish high school in Vigo, Spain for 1 year; studied 4 years of high school Spanish.
- Proficient in Chinese: Studied in China during 2 Summers; completed 4 years of collegiate Mandarin courses.

TECHNICAL EXPERIENCE

INCOMING SOFTWARE ENGINEERING INTERN AT FIS WORLDPAY

AUG 2020 – NOV 2020

- Will gain familiarity developing software on the whole stack, from database development and management to GUI design and implementation.
- Will gain expertise in the payment processing and e-commerce fields.

SOFTWARE ENGINEERING INTERN AT NIELSEN

JUN 2020 – AUG 2020

- Cancelled due to Covid-19

PROGRAMMING FUNDAMENTALS TEACHING ASSISTANT

AUG 2019 – MAY 2020

- Held a Programming Fundamentals 1 lab and office hours once a week to teach course content and help students work through difficult and unique problems in Java.
- Graded assignments and collaborated with fellow TA's and the professor to improve the way material was presented to students.

PROJECTS

TUNECOACH

MAY 2020 – AUG 2020

- Worked with a team of 5 students to create a pitch detection and evaluation application aimed at helping musicians improve their intonation.
- Designed the GUI of the application using the python tkinter library. Also helped connect the GUI to the app's back-end.

ASL SIGN LANGUAGE IMAGE CLASSIFIER

FEB 2020 – APR 2020

- Collaborated with a team of 4 students to design and develop an ASL sign language classifier in python. The final classifier utilized a neural network with three convolutional layers and classified signs A through H with around 90% accuracy.
- Helped to create and evaluate many different types of classifiers (MLP, SVM, KNN) before developing the final classifier.

LEADERSHIP

PRESIDENT OF CHINESE CULTURE CLUB

AUG 2019 – OCT 2019

- Connected with teachers and students to create interest for the club, as well as listened to critical feedback about its operations.
- Stimulated meaningful dialogue between American and Chinese students at meetings.

SPANISH INSTRUCTOR UF FOREIGN LANGUAGE ORGANIZATION

SEP 2017 – APR 2018

- Held weekly meetings with groups of up to 6 students from various backgrounds to teach them Spanish.