


# Joe Gravelle

 <https://joegravelle.me>

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 jgravellefl

## 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, Performance 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

- |          |       |            |       |              |       |
|----------|-------|------------|-------|--------------|-------|
| • Java   | ●●●●● | • SQL      | ●●●●○ | • Git/Github | ●●●●○ |
| • Python | ●●●●● | • C        | ●●●○○ | • Spanish    | ●●●●● |
| • C++    | ●●●●○ | • HTML/CSS | ●●●○○ | • Mandarin   | ●●●●○ |

## 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 fields of payment processing and e-commerce.

### 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. The application can be easily downloaded and run from github.
- 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 signed letters A - H with around 90% accuracy.
- Helped to create and evaluate many different types of classifiers (MLP, SVM, KNN) before developing the final classifier.

### Night Out

JAN 2018

- Designed and created the prototype of a group meet-up application using android studio and the google maps API. Users of the app would be able to create and see events around their city through event pins placed on a local map.

## LEADERSHIP

### PRESIDENT OF CHINESE CULTURE CLUB

AUG 2019 – NOV 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 background to teach them Spanish.