

# CAIJUN QIN

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## EDUCATION & HONORS

- Aug 2019 – **UNIVERSITY OF FLORIDA** ♦ GAINESVILLE, FL  
May 2022 **Major:** Computer Science B.S. & Minor in Statistics **Major GPA:** 3.92 / 4.00  
**Distinctions:** University Scholars Program, SW Engineering Club Webmaster, UF Hackathoners Treasurer  
**Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Performant Programming in Python, Competitive Programming, Principles of Programming Language, Intro to Data Science, Programming with Data in R, Intro to Software Engineering
- Aug 2018 – **FLORIDA STATE UNIVERSITY** ♦ TALLAHASSEE, FL  
May 2019 **Major:** Computer Science B.S. **Major GPA:** 4.00 / 4.00  
**Distinctions:** University Honors Program, Treasurer of ACM Chapter  
**Relevant Coursework:** Intro Programming I (C++), OO Programming, Linear Algebra, Calculus III

## PROJECTS & RESEARCH

- Feb 2021 – **DocVR: Virtual Reality AI Health Assistant** ♦ BrickHack 7 (RIT Hackathon)  
Feb 2021
  - Configured CockroachDB distributed database with NLP capabilities to log virtual doctor's speech
  - Team won *Best Covid-19 Hack* award

Jan 2021 – **Sentinel** ♦ SwampHacks VII (UF Hackathon)  
Jan 2021
  - Constructed a CSV-to-JSON converter to facilitate importing uploaded data to *Cloud Firestore* database
  - Team won the *InfoTech Challenge* for most innovative use of a public dataset for the public good

May 2020 – **Predictive Sampling Method for Spread Models in Networks** ♦ UF University Scholars Program  
April 2021
  - Author of research paper published to the UF's *Journal of Undergraduate Research*
  - Developed new sampling method for large networks based on quota sampling of high-degree nodes
  - Used different statistics of samples to evaluate proposed algorithm against other sampling algorithms

May 2020 – **Backend Engineer for OCR Note-taking App** ♦ UF Performant Programming in Python Course  
Aug 2020
  - Maintained customizable pipeline to preprocess text images with OpenCV and Pillow library tools
  - Optimized parameter values for different image preprocessing functions and experimentally determined the best selection and order of functions to boost optical character recognition (OCR) accuracy

Jan 2020 – **American Sign Language Image-to-Letter Translator** ♦ UF Machine Learning Course  
Apr 2020
  - Collectively built classification system for ASL translation with supervised KNN model (~90% accuracy)
  - Engineered pipeline that preprocesses image, trains classifier, predicts letter, and evaluates accuracy

## AWARDS, FUNDING, & RECOGNITION

- Feb 2021 **Gartner Group Information Technology Fund**  
\$1000 ♦ University of Florida, Gainesville, FL
- May 2020 **Russell and Mary Hyatt McCaughan Scholarship**  
\$1000 ♦ University of Florida, Gainesville, FL
- Feb 2020 **University Scholars Program**  
\$1750 ♦ University of Florida, Gainesville, FL
- May 2018 **University Freshman Scholarship**  
\$1200 / Semester ♦ Florida State University, Tallahassee, FL
- Mar 2019 **1<sup>st</sup> Place in Lower Division (Out of 78 Teams)**  
FSU Spring 2019 Programming Competition ♦ Florida State University, Tallahassee, FL
- Jan 2019 **University Honors Program**  
Lateral Admission into Honors Program ♦ Florida State University, Tallahassee, FL

## PROFESSIONAL SKILLS

### Bilingualism

Articulate communicator and writer with fluency in *English* and *Mandarin Chinese*

### Databases, Frameworks, and Tools

Working knowledge of *MySQL*, *MongoDB*, *SQLite*, *Cloud Firestore*, *CockroachDB*, *Node.js*, *React*, *JQuery*, *Bootstrap*

### Programming and Markup Languages

Relatively ordered proficiency in *Python*, *Java*, *C++*, *C#*, *Solidity*, *R*, *Go*, *HTML*, *CSS*, *JavaScript*, *XML*, *YAML*