

CAIJUN QIN

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EDUCATION & HONORS

- Aug 2019 – May 2022 **UNIVERSITY OF FLORIDA ♦ GAINESVILLE, FL**
Major: Computer Science B.S. & Minor in Statistics **Major GPA:** 3.97 / 4.00
Honors & Distinctions: University Scholars Program, Russell and Mary Hyatt McCaughan Scholarship
Relevant Coursework: DSA, Machine Learning, Performant Programming in Python, Competitive Programming, Principles of Programming Language, Data Science, Programming with Data in R, Intro to SWE
- Aug 2018 – May 2019 **FLORIDA STATE UNIVERSITY ♦ TALLAHASSEE, FL**
Major: Computer Science B.S. **Major GPA:** 4.00 / 4.00
Honors & Distinctions: President's List, Dean's List, Honors Program, University Freshman Scholarship
Relevant Coursework: Intro Programming I (C++), OO Programming, Linear Algebra, Calculus III

PROJECTS & RESEARCH

- Jan 2021 – Jan 2021 **Sentinel ♦ SwampHacks VII Hackathon**
 - Team won the *InfoTech Challenge* for most innovative use of a public dataset for the public good
 - Constructed a CSV-to-JSON converter to facilitate importing uploaded data to *Cloud Firestore* database
- May 2020 – April 2021 **Predictive Sampling Method for Spread Models in Networks ♦ UF University Scholars Program**
 - Primary co-author of research paper to be published April 2021
 - Developing new sampling method for large networks based on probabilistic spread from single node
 - Using a agent-based model programmed with Python NetworkX and Mesa libraries to evaluate accuracy
- May 2020 – Aug 2020 **Backend Engineer for OCR Note-taking Application ♦ UF Performant Programming Course**
 - 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 – Apr 2020 **American Sign Language Image-to-Letter Translator ♦ UF Machine Learning Course**
 - Collaboratively built classification system to translate ASL hand images with supervised ML paradigm
 - Engineered pipeline that preprocesses image, trains classifier, predicts letter, and evaluates accuracy
- Jun 2019 – Sept 2019 **JTreeLib Library with JavaDocs ♦ Open-Source Project**
 - Developed open-source library to build binary tree, ternary tree, B-tree, segment tree, trie, and more
 - Aims to significantly improve work efficiency for others in need of commonly used data structures
- Jan 2019 – May 2019 **Bipartite Matching Optimization ♦ FSU University Honors Research**
 - Applied bipartite graph theory and Hungarian Algorithm to minimize costs between two sets of objects
 - Innovated separate optimization algorithm that pinpoints best matchings based on any set of weighted and quantitative attributes defined by the user
 - Designed search algorithm for matrices that selects optimal entry according to custom numerical criteria

AWARDS, FUNDING, & RECOGNITION

- 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 **1st Place in Lower Division (Out of 78 Teams)**
FSU Spring Programming Competition ♦ Florida State University, Tallahassee, FL

PROFESSIONAL SKILLS

Bilingualism

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

Frameworks and Tools

Working knowledge of *MySQL*, *MongoDB*, *SQLite*, *node.js*, and various unit testing frameworks (*CATCH*, *JUnit*, *Pytest*)

Programming Languages

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