CAIJUN QIN

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EDUCATION & HONORS

Aug 2019 – May 2022

UNIVERSITY OF FLORIDA ♦ GAINESVILLE, FL
Major: Computer Science, B.S. ♦ **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 ♦ TALLAHASSE, 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 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 for sign language image recognition with supervised machine learning 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 data
- Innovated separate optimization algorithm that pinpoints best matchings based on any set of weighted and quantitative attributes set by 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*