CAIJUN QIN

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EDUCATION & HONORS

Aug 2019 – May 2022 **UNIVERSITY OF FLORIDA** ♦ GAINESVILLE, FL
Major: Computer Science, B.S. ♦ **Major GPA:** 4.000 / 4.000
Honors & Distinctions: University Scholars Program, Russell and Mary Hyatt McCaughan Scholarship
Relevant Coursework: Intro Programming (Java), Discrete Structures, Info and Database Systems I, Data Structures and Algorithms, Machine Learning, Performant Programming in Python

Aug 2018 – May 2019 **FLORIDA STATE UNIVERSITY** ♦ TALLAHASSE, FL
Major: Computer Science, B.S. ♦ **Major GPA:** 4.000 / 4.000
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

LEADERSHIP, SERVICE, AND PROJECTS

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

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

Mar 2018 – Apr 2018 **Solar Architect JavaScript GUI** ♦ High School CS Principles Course Final Project
- Constructed architectural blueprint mobile application with toolbar and animated aesthetics
- Facilitates planners to quickly and accurately sketch designs from multiple views in perspective

AWARDS, RECOGNITIONS, AND FUNDING

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

Feb 2017 **1st Place in Physics**
Louisiana High School Literary Rally ♦ Southeastern Louisiana University, Hammond, LA

Jul 2016 **10th Place in Theta Gemini, 12th Place in Matrices and Determinants, 13th Place in Quadratics**
Mu Alpha Theta National Convention ♦ Washington University in St. Louis, St. Louis, MO

PROFESSIONAL SKILLS

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

Microsoft Office Specialist Certifications: Certified specialist in *2013 MOS Word*, *2014 MOS Excel*, *and 2013 MOS PowerPoint* upon passing certification exams through the *Introduction to Business Computer Applications* course in May 2015
Programming and Markup Languages: Competent in *C++*, *Java*, and Python for 2 years, and experience with *HTML*, *CSS*, and *JavaScript* for 1 year, Working knowledge of JUnit, CATCH, and PyTest unit testing frameworks