

CAIJUN QIN

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EDUCATION & HONORS

- Aug 2019 – **UNIVERSITY OF FLORIDA** ♦ GAINESVILLE, FL
May 2022 **Major:** Computer Science B.S. & Statistics B.A. **Major GPA:** 3.93 / 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, Statistical Learning
- 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

- Jun 2021 – **Using AI to Trace the History of Race and Inequality** ♦ Undergraduate Research, Dept. of Classics, UF
Present
 - Engineering NLP pipeline to clean, translate, and index Latin and Greek texts for querying
 - Leads team of students to webscrape XML files and extract raw text sections from classical literature
 - Leveraging HPC from UF's HiperGator 2.0 supercomputer to processes tasks on corpora in parallel
- Jun 2021 – **REU at University of North Texas** ♦ Dept. of Information Science, College of Information, UNT
Aug 2021
 - Quantitatively evaluated traditional machine against deep learning algorithms on legal text classification
 - Assessed BERT transfer learning using Tensorflow/Keras and HuggingFace libraries
 - First author of research paper accepted to the [JURISIN 2021](#) workshop
- May 2020 – **Predictive Sampling Method for Spread Models in Networks** ♦ University Scholars Program, UF
April 2021
 - Developed new sampling method for large networks based on quota sampling of high-degree nodes
 - First author of research paper published to the [UF Journal of Undergraduate Research](#)
- May 2020 – **Backend Engineer for OCR Note-taking App** ♦ Performant Programming in Python Course, UF
Aug 2020
 - Integrated machine learning and database functionalities for optical character recognition (OCR) [app](#)
 - Maintained customizable pipeline to preprocess text images with OpenCV and Pillow
 - Experimentally optimized parameter selection and preprocessing steps to boost text prediction accuracy
- Jan 2020 – **American Sign Language Image-to-Letter Translator** ♦ Intro to Machine Learning Course, UF
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

- Jun 2021 – **NSF REU: College of Information at UNT**
Aug 2021 **\$7000** ♦ *University of North Texas, Denton, TX*
- Mar 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 **1st Place in Lower Division**
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 *Apache Spark*, *EC2*, *MySQL*, *MongoDB*, *SQLite*, *Firestore*, *CockroachDB*, *Node.js*, *React*, *Angular*

Programming and Markup Languages

Relatively ordered proficiency in *Python*, *C++*, *Java*, *Julia*, *R*, *Rust*, *C#*, *MATLAB*, *Solidity*, *Go*, *HTML/CSS/JS*, *XML*, *YAML*