

CAIJUN QIN

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EDUCATION

- Aug 2019 – **UNIVERSITY OF FLORIDA** ♦ GAINESVILLE, FL
May 2022 **Major:** Computer Science B.S. & Statistics B.A. **Major GPA:** 3.93 / 4.00
Involvement: ACM / Hackathoners Club Treasurer, Open-Source / Google Developer Student Club Tech Lead
Courses: Software Engineering, Data Structures & Algorithms, Machine Learning, Performant Programming in Python, Competitive Programming, Data Science, Programming with Data in R, Statistical Learning
- Aug 2018 – **FLORIDA STATE UNIVERSITY** ♦ TALLAHASSEE, FL
May 2019 **Major:** Computer Science B.S. **Major GPA:** 4.00 / 4.00
Involvement: Treasurer of ACM Chapter
Courses: Intro Programming I, 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 high performance computing and Apache Spark 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**
\$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 Stipend**
\$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

Programming and Markup Languages

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

Databases, Frameworks, and Tools

Working knowledge of *Apache Spark, EC2, MySQL, MongoDB, SQLite, Firestore, CockroachDB, Node.js, React, Angular*

Bilingualism

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