CAIJUN QIN

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EDUCATION

Aug 2019 – May 2022	**UNIVERSITY OF FLORIDA** ♦ GAINESVILLE, FL **Major**: Computer Science B.S. & Statistics B.A. **Major GPA:** 3.91 / 4.00 **Services:** Treasurer of ACM, Society of Software Developers, and UF Hackathoners; Project Lead in Open Source Club and Digital Science and Informatics; Tech Lead in Google DSC; Webmaster of SWE Club **Courses:** Machine Learning, Competitive Prog., Data Science, Prog. with Data in R, Statistical Learning
Aug 2018 – May 2019	**FLORIDA STATE UNIVERSITY** ♦ TALLAHASSE, FL **Major**: Computer Science B.S. **Major GPA:** 4.00 / 4.00 **Services:** Treasurer of ACM **Courses:** Intro Programming I, OO Programming, Linear Algebra, Calculus III

PROJECTS & RESEARCH EXPERIENCE

Jun 2021 – Present	**Using AI to Trace the History of Race and Inequality** ♦ Undergraduate Research, Dept. of Classics, UF ▪ Engineering NLP pipeline to retrieve, transform, 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 operate information retrieval in parallel
Jun 2021 – Aug 2021	**REU at University of North Texas** ♦ Dept. of Information Science, College of Information, UNT ▪ Quantitatively evaluated traditional machine against deep learning algorithms on legal text classification ▪ Performed transfer learning with BERT and Sentence-BERT to classify corporate contracts and clauses ▪ First author of research paper accepted to the JURISIN 2021 workshop and proceedings
May 2020 – April 2021	**Predictive Sampling Method for Spread Models in Networks** ♦ University Scholars Program, UF ▪ Developed new sampling method for large networks based on quota sampling of high-degree nodes ▪ Authored paper published to the UF Journal of Undergraduate Research
May 2020 – Aug 2020	**Backend Engineer for OCR Note-taking App** ♦ Performant Programming in Python Course, UF ▪ Integrated machine learning and database functionalities for optical character recognition (OCR) app ▪ Created pipeline to pre-process text images with OpenCV and Pillow to boost text prediction accuracy
Jan 2020 – Apr 2020	**American Sign Language Image-to-Letter Translator** ♦ Intro to Machine Learning Course, UF ▪ 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
Proficient: *Python, C++, Java, R, Rust, Julia*
Intermediate or working knowledge: *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*