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

RESEARCH & PROJECT EXPERIENCE

Jun 2021 – Present
Using AI to Trace the History of Race and Inequality ♦ Undergraduate Research, Dept. of Classics, UF
- Engineered 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
- Leveraged high performance computing with Apache Spark and Dask for parallel document retrieval

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 by setting quotas for high-degree nodes
- Authored paper published to the UF Journal of Undergraduate Research

May 2020 – Aug 2020
Backend Engineer for OCR Note-taking Application ♦ UF Performant Programming Course
- 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 ♦ UF Machine Learning Course
- Collectively optimized ASL translation with supervised KNN model (~90% accuracy) using Scikit-Learn
- 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 to working knowledge: MATLAB, Go, Solidity, C#, HTML/CSS/JS, XML, YAML
Databases, Frameworks, and Tools
Working knowledge of Apache Spark, Dask, MySQL, MongoDB, SQLite, Firestore, CockroachDB, Node.js, React, Angular
Bilingualism
Articulate communicator and writer with fluency in English and Mandarin Chinese