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:** 3.93 / 4.00
Services: Treasurer (ACM, Society of Software Developers, Hackathoners Club), Project Lead (Open Source Club, Digital Science and Informatics), Tech Lead (Google Developer Student Club)
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 – May 2019
FLORIDA STATE UNIVERSITY ♦ TALLAHASSE, FL
Major: Computer Science B.S. **Major GPA:** 4.00 / 4.00
Services: Treasurer (ACM)
Courses: Intro Programming I, OO Programming, Linear Algebra, Calculus III

PROJECTS & RESEARCH

Jun 2021 – Present
Using AI to Trace the History of Race and Inequality ♦ Undergraduate Research, Dept. of Classics, UF
- 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 – 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
- Assessed BERT transfer learning using Tensorflow/Keras and HuggingFace libraries
- First author of research paper accepted to the JURISIN 2021 workshop

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
- First author of research 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 preprocess text images with OpenCV and Pillow to boost rext 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
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*