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:** 3.79 / 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: *Operating Systems, Machine Learning, Statistical Learning, Competitive Prog., Data Science*

Aug 2018 – May 2019
FLORIDA STATE UNIVERSITY ♦ TALLAHASSE, FL
Major: Computer Science B.S. **Major GPA:** 4.00 / 4.00 ♦ **University Honors Program**
Services: Treasurer of ACM
Courses: *Programming I, Object-Oriented Programming, Linear Algebra, Calculus III*

RESEARCH & PROJECT EXPERIENCE

Jun 2021 – May 2022
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 student team to extract raw text sections from digital collections of classics in XML format
- Leveraged high performance computing with Apache Spark and Dask for parallel document retrieval

Jan 2022 – Apr 2022
Cache Replacement Policy Simulator ♦ Extended project from Probability in CS course, UF
- Wrote simple, light-weight, and event-driven cache algorithm simulator with accompanying short paper
- Supports both simple and machine learning-based cache replacement policies from published research

Jun 2021 – Aug 2021
Data Analytics and Info Retrieval at Univ. of North Texas ♦ NSF REU, Dept. of Information Science, UNT
- Comparison study of traditional and deep learning algorithms on legal text classification (JURISIN 2021)
- Performed transfer learning with BERT and Sentence-BERT to classify corporate contracts and clauses

May 2021 – May 2021
PowerSearch ♦ Ryerson University Hackathon
- Programmed Discord bot that can summarize, analyze sentiment, and recommend topics from the web
- Applied Datastax Astra to store bot replies with high availability and won company's sponsored prize

Jan 2021 – Apr 2021
Society of Software Engineers Website ♦ UF Software Engineering Course
- Primarily developed blog section of new website with Angular for on-campus CS student organization
- Assisted in various tasks, including designing wireframes and testing new features, as part of Agile team

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, CERTIFICATIONS, & RECOGNITION

July 2022	**MLH Top 50 of 2022**
Mar 2022	**NVIDIA Deep Learning Institute: Building Transformer-Based NLP Applications**
Feb 2022	**NVIDIA Deep Learning Institute: Applications of AI for Anomaly Detection**
Apr 2021	**MATLAB Onramp & MATLAB Machine Learning Onramp**
Jul 2020	**M001: MongoDB Basics**
Mar 2019	**1st Place in Lower Division of FSU Spring Programming Competition**

PROFESSIONAL SKILLS

Programming and Markup Languages
Intermediate to Proficient: Python, C++, Java, R, Rust, Julia
Beginner to Working Knowledge: MATLAB, Go, Solidity, C#, HTML/CSS/JS, XML, YAML
Databases, Frameworks, and Tools
Working knowledge of CircleCI, Docker, Apache Spark, Dask, MongoDB, SQLite, MySQL, GCP APIs, Node.js, React
Bilingualism
Articulate communicator and writer with fluency in English and Mandarin Chinese