

EDUCATION

- Aug 2019 – **UNIVERSITY OF FLORIDA** ♦ GAINESVILLE, FL
 May 2022 **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 – **FLORIDA STATE UNIVERSITY** ♦ TALLAHASSEE, FL
 May 2019 **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

- Apr 2022 – **Cache Replacement Policy Simulator in Go** ♦ Personal project extended from Probability in CS course, UF
 Present
 - Adapted prior course project for a [cache algorithm simulator](#) into Go with server architecture parameters
 - Supports both simple and machine learning-based cache replacement policies from published research
- Jun 2021 – **Using AI to Trace the History of Race and Inequality** ♦ Undergraduate Research, Dept. of Classics, UF
 May 2022
 - 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
- Jun 2021 – **Data Analytics and Info Retrieval at Univ. of North Texas** ♦ NSF REU, Dept. of Information Science, UNT
 Aug 2021
 - 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 – **PowerSearch** ♦ Ryerson University Hackathon
 May 2021
 - 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 – **Society of Software Engineers Website** ♦ UF Software Engineering Course
 Apr 2021
 - 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 – **Predictive Sampling Method for Spread Models in Networks** ♦ University Scholars Program, UF
 April 2021
 - 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 – **Backend Engineer for OCR Note-taking Application** ♦ UF Performant Programming Course
 Aug 2020
 - 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 – **American Sign Language Image-to-Letter Translator** ♦ UF Machine Learning Course
 Apr 2020
 - 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](#)