

ASHRITH ANUMALA

ashrithanumala04@gmail.com | 214-960-9281 | [LinkedIn](#) | [GitHub](#) | 9209 Forest Hills Dr. Irving, TX

EDUCATION

University of Illinois at Urbana-Champaign

Expected Graduation: May 2026

Bachelor of Science in Computer Science & Statistics

Current GPA: 3.9/4.0, Dean's List

Relevant Coursework: High-Frequency Trading, Financial Engineering, Bayesian Analysis, Data Structures & Algorithms, Stats. Modeling, Linear Algebra, Stats. & Probability, Computer Systems, Stochastic Processes

Programming Languages: C/C++, Python, R, Java, Kotlin, Linux, SQL, JavaScript, CSS, STAN, MATLAB

Tools & Technologies: Pandas, PyTorch, AWS, Docker, Git, Langchain, Tableau, Flask, Excel, PowerBI

Activities: Algo-Trader at Illini Blockchain, Consultant at OTCR Consulting, Percussionist at UIUC

EXPERIENCE

Software Team Lead

Aug. 2023 – Present

Founders

Champaign, IL

- Spearheaded the development of a natural disaster **LLM**, enhancing response queries by 30% with **RAGs**
- Developed & deployed UI using **React JS**, **Flask**, **MongoDB**, and a **Python** backend, serving as an MVP
- Fine-Tuned an OpenAI LLM to support social workers with homeless aid, raising model accuracy by 40%

Undergraduate Statistics Research Intern

Aug. 2023 – Present

Sandia National Laboratories

Champaign, IL

- Built a lightning forecasting model using government data and various models (GLM's, Mixed Effects Models, Poisson-Based Models, LGCP, etc.) in **R** and **Python**, increasing sensitivity, precision, and accuracy by 20%
- Applied several **data cleaning** and **aggregation** methods to over 4 petabytes of data to improve data veracity

Software Developer Intern

May 2023 – Aug. 2023

INVIDI Technologies

Princeton, NJ

- Engineered **CI/CD** deployment pipelines with **maven**, **terraform**, and **bash**, cutting **AWS** costs by 50% and developer time by 80%; wrote extensive documentation to significantly improve other company projects
- Collaborated with 10+ developers in an **Agile** environment to streamline frequent software deployments

Drumline Instructor

May 2022 – Aug. 2022

Coppell High School Percussion Program

Coppell, TX

- Led 10+ high school students in mastering rhythm, sound, and motion to qualify for PASIC (Top 3 globally)

Machine Learning Intern

May 2021 – Aug. 2021

Tech For Good Inc.

Boston, MA

- Developed a web-app matching homeless people with blue-collar jobs, improving job placement by 35%
- Implemented **NLP** and **web scraping** to accurately classify job posts, boosting model accuracy by over 40%

NASA SEES Intern

May 2020 – Aug. 2020

NASA

Houston, TX

- Published a paper on augmenting land cover datasets with citizen science observations, a novel data method
- Employed **regression models** and **correlation analysis** to identify predictors of mosquito-borne diseases

PROJECTS & ACTIVITIES

Crypto Market Microstructure Analysis

Mar. 2024 – Present

- Analyzing Crypto Order Book & Trading Data across multiple exchanges to predict global trading trends

NFL Big Data Bowl

Jan. 2024

- Developed a novel tackle influence model for NFL players with applied statistics, achieving 85% accuracy
- Utilized **NumPy** and various Python libraries to fit data and further enhance dynamic stats. distributions

VSCO Collection Diversity Analyzer

Oct. 2022

- Analyzed the diversity of a VSCO user's friends with Shannon's Diversity Index based on online reposts
- Automated the extraction of dynamic image and text data with **Python scripting** for comprehensive analysis

Houses on the Go: Alexa App/Website

Dec. 2020

- Developed Alexa Skill that provides users with details of their nearest property, using various **API's** & **GCP**