

# Hritik Arasu

Computational Neuroscience Graduate Student at the University of Texas

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## EDUCATION

### University of Texas - Dallas, TX

MS in Computer Science & Neuroscience

Expected May 2025

### University of Illinois - Champaign, IL

BS Statistics + Computer Science, Minor in Psychology

May 2024

Completed Coursework: Data Structures & Algorithms, Linear Algebra, Systems Programming, Statistical Modeling & Regression, Artificial Intelligence, Database Systems, Cognitive & Behavioral Neuroscience

## WORK EXPERIENCE

### Research Assistant – CoCo-Neuro Lab at UTD

Aug. 2024 – Present

### Research Assistant – Yu Lab at UIUC

Aug. 2023 – June 2024

- Collaborated with PhD candidates on neuroscience research regarding astrocytes
- Developed classification and behavior models as well as analysis while assisting with experiments

### Web Development Intern – PuzzleLabs

Oct. 2023 – May 2024

- Developed topic-specific large-language models (LLMs), contributing as a key member of the engineering team.
- Automated web scraping across multiple platforms, delivering critical data to support team operations.

### Software Engineering Intern – United Airlines

May 2023 – Aug. 2023

- Contributed to the development of the Bag Manager platform for internal use, utilizing C++ and JavaScript with AWS, Spring Boot, and Kafka, successfully deploying it for internal client applications and external web-based use, impacting every United Airlines passenger and employee
- Took part in project management activities, grooming user stories, effectively coordinating with team members, monitoring progress, and ensuring timely project delivery in an agile work environment

### Student Researcher - IRisk Lab

Jan. 2022 – Aug. 2022

- Created Smart Contracts from scratch for an insurance company client and performed risk analysis
- Worked in a small group with other 5 undergraduates supervised by Dr. Runhuan Feng
- Backend and Smart Contract programming with Solidity and Data and Risk Analysis with Python

### Software Engineering Intern - Kernel Labs

June 2021 – Aug. 2021

- Held meetings with clients to gain further design insights into what the application requires
- Used Python to scrape images of models/celebrities from Google and preprocess them for testing the product
- Created formulas to translate body dimensions into sizes of clothing in JavaScript

## PROJECTS AND EXTRACURRICULARS

### Informatics Fraternity Psi Eta Mu - Pledge Educator

Aug. 2023 – May 2024

### Natural Language Processing Tutorial

Aug. 2022 – Jan. 2024

- Launched a simple tutorial for people to learn Natural Language Processing
- Taught in Python with PyTorch and additional visualizations and popular datasets

### Construct Energy App (HackIllinois 2022 Winner)

February 2022

- Developed an interactive web application using Python, HTML, and CSS, with dynamic graphics
- Utilized an open-source dataset to create a Python model with interactive visualizations of a proposed house

### Instructor - Young Data Scientists League

July 2020 – Feb. 2021

- Created and taught material for a new organization focused on making AI more accessible for K-12

## SKILLS

**Languages** Python, Java, C, C++, Swift, HTML, MySQL, Git, R, Solidity, MATLAB, Rust, Ruby

**Technical Skills** ReactJS, PyTorch, TensorFlow, Firebase, OpenCV, NumPy, SciPy, Plotly, NodeJS, AWS Suite