

Iniyani Joseph

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EDUCATION

University of Texas at Dallas - 3.982

Computer Science, CV Honors

Richardson, TX

Aug. 2023 - Dec. 2025

RELEVANT COURSEWORK

Independent Study - Fair Division: CS 4V95

Advanced Design and Analysis of Algorithms: CS 4348

Data Structures Algorithms: CS 3345

Discrete Math for Computing: CS 3305

Statistics for Computing: CS 3341

Linear Algebra: MATH 2418

Operating Systems: CS 4347

Computer Architecture: CS 2340

EXPERIENCE

Grader

University of Texas at Dallas

Jan. 2024 - Present

Richardson, TX

Research Intern

UTD Multimodal Interactions Lab

Sep. 2023 - Sep. 2024

Richardson, TX

- Wrote two research papers (currently under review)
- Studied issues with high resolution depth perception and efficient text entry in virtual reality
- Designed two keyboards for virtual augmented reality

RESEARCH AND PROJECTS

Fair Division Survey | *Discrete Mathematics, Fair Division, Algorithm Design and Analysis, Economics*

Aug. 2024 - Dec. 2024

- Surveyed current research in Fair Division
- Summarized literature and found research gaps and open problems

Gus and the search for the Golden Goose | *Typst, Latex, Mathematics*

Jan. 2024 - Present

- Authoring children's book introducing introductory mathematics
- Explain arithmetic, geometry, discrete mathematics, and calculus through story

Simple Shell | *C, BASH*

Apr. 2024 - May 2024

- Developed BASH Shell with support for piping and redirection in C

Nebula Labs | *Go, ChromeDP, MongoDB*

Sep. 2023 - Dec. 2023

- Open source contribution to UTD Nebula Project
- Wrote in-use production code and learned about data analytics
- Web scraper for UTD professor and event data

Project Kaos | *Unreal Engine, C++, Scrum, Agile*

Aug. 2022 - May 2023

- Practiced Scrum and AGILE methodologies as project manager and developer
- Developed First-Person RPG Video game using Unreal Engine
- Learned communication skills and problem-solving skills
- Presented to Gearbox

CLUBS

UTD Computation and Economics Club | *Founder, President*

Mar. 2024 - Present

- Study select problems in Economics and Computation
- Work on Combinatorial Optimization problems
- Write and present lectures on theoretical CS, discrete math, and economics

UTD Codeburners | *Member*

Aug. 2023 - Present

- Participate in International Collegiate Programming Competition events
- Compete in North American Qualifiers and South Central USA Competitions
- Host UTD Battle of the Brains

UTD World Languages Club | *Officer*

Jan. 2024 - Present

- Lead discussions in linguistics
- Study romance language grammar and constructed language design

Nebula Labs API Team | *Member*

Sep. 2023 - Dec. 2023

- Open source team developing software to serve the UTD community
- Contribute to API team and develop web scraper for server backend

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JS, SQL, Nim, Go, Julia, BASH, Kotlin, C#, OCaml

Frameworks: Flask, JUnit, Unity, Godot, Android Studio, Swift, Django

Developer Tools: Git, VS Code, PyCharm, Latex, Typst, Unix, Linux, Machine Learning, Data Science

Libraries: pandas, NumPy, Matplotlib, Tkinter, SKLearn, Tensorflow