Iniyan Joseph

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EDUCATION

University of Texas at Dallas - 4.0 Richardson, TX
Computer Science, Dean's List, Honors *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

Research Intern Sep. 2023 - Sep. 2024
UTD Multimodal Interactions Lab *Richardson, TX*
- Wrote two research papers (currently under review)
- Studied issueshigh resolution depth perception and efficient text entry in virtual reality
- Designed two keyboard for 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 Internation Collegiate Programming Competition events
- Compete in North American Qualifiers and South Central USA Competitions
- Host UTD Battle of the Brains

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, Spring