Isaac Chacko

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EDUCATION

Texas A&M University @ College Station - Engineering Honors Aug 2024 - Present
Graduating May 2028 with a Bachelors of Science in Computer Science
Relevant Coursework: Differential Equations, Programming Design (C++), Calculus 3

EXTRACURRICULAR ACTIVITIES

TAMU TACO Group - Repository Contributor Oct 2024 - Present

- Develop PyTorch feed-forward models to tackle super resolution regarding video frame interpolation

Aggie Coding Club - *AggieSeek* Project Contributor Aug 2024 - Present

- Work with 50+ members to develop a real-time web app targeting course selection among Aggies

TECHNICAL SKILLS & WORK EXPERIENCE

Languages: Python, C++, C, Java, JavaScript, HTML, Clojure, ClojureScript, Lua, SQL
Technologies: Debian/Ubuntu Linux, Git, Django, Flask, Selenium, NextJS, Unity3D, Godot, OpenCV
Areas: Full Stack Web Development, Game Design/Development, Web Scraping, Data Analysis

Code Ninjas - Programming Instructor @ Richmond, TX Jul 2021 – Jun 2024

- Lectured in JavaScript and C++ regarding complex algorithms and data structures using Unity
- Held weekly STEM camps regarding 3D printing, 3D game development, robotics, and microcontrollers

LUMINARE - Software Development Intern @ Houston, TX Jul 2023 - Aug 2023

- Interned with LUMINARE, a rising medical tech startup in the Texas Medical Center focused on improving rapid Sepsis detection and response procedures
- Developed a full stack website with responsive frontend web pages with Lisp language architecture via Clojure and a complete database backend using PostgreSQL and ClojureScript

ACHIEVEMENTS & DISTINCTIONS

“HowdyHack 2024” Hackathon Winner | OpenCV, NextJS, Flask Sept 2024

- Received one of only two honorable mentions out of 160+ hackers for creating a tool to calculate real-time audience retention analytics and slide deck analysis using machine vision and speech vectorization

2024 National Merit Semifinalist Scholar Sept 2023 - Present

- Awarded distinction given to only ~17,000 students around the United States from an exceptional PSAT

PROJECTS

Personal Website | NextJS, CSS, HTML, Bash Sept 2023 - Oct 2023

- Displays my achievements, resume, and Arch Linux i3wm Rice configuration

Differential Equation Simulation | Python, OpenGL Sept 2023 - Oct 2023

- Generates visual predictions of massless particle displacement given an initial value and differential equation, using PerlinNoise as a test case to visualize computerized randomness