

Raul Hernandez

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Education

The University of Texas at Dallas

B.S. Computer Science, 3.5 GPA

Richardson, TX

Aug 2022 - Present

- **Organizations:** Association of Computing Machinery
- **Relevant Coursework:** Data Structures and Algorithms, UNIX, Computer Architecture

Tarrant County College

Associate of Arts, 3.79 GPA

Hurst, TX

Aug 2020 - July 2022

- **Honors:** Dean's List for Fall 2020, Fall 2021
- **Organizations:** Powerlifting

Experience

ACM Research

Researching Solana Blockchain

Richardson, TX

August 2023 - Present

- Conducting in-depth research and analysis of decentralized applications on the Solana blockchain, identifying its high-performance and scalability features as a robust foundation for complex dApps
- Engaging in hands-on development and troubleshooting, providing critical insights into the challenges and opportunities in the evolving landscape of Solana-based decentralized applications

Projects

Workout Planner and Tracker

Fall 2023

JavaScript, HTML, CSS, PHP, MySQL

- Created a user authentication system using PHP, and MySQL databases, ensuring data privacy, security, and persistent storage of user details
- Integrated a suggestion algorithm, which provides users with personalized recommendations for sets, reps, and weights based on historical input, enhancing user workout efficiency

Study Time Balancer

Spring 2023

React, Firebase, Firestore

- Introduced an intuitive tally mark system to visually represent time spent on each subject, implemented using Firebase and managed through a Firestore database for persistent storage
- Embedded a recommendation engine which suggests subjects to focus on based on previous time allocations and priority settings, ensuring balanced attention across topics

Game Movement Automator

Spring 2023

Java, C++, JNI

- Leveraged Java to design a UI integration within the native game, ensuring a cohesive user experience
- Implemented core automation functionality using C++, reducing manual repetitive actions and enhancing in-game efficiency

Skills

Languages

Java, Python, C++, JavaScript, CSS, PHP, HTML

Frameworks

React.js, Node.js

Platforms and Tools

Git, XCode, VS Code, Firebase, Vercel

Libraries

JavaFX, Axios

SDKs

JDK

Databases

MySQL, phpMyAdmin