

# David Alejandro Sanchez

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## EDUCATION

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### University of Houston

*B.S in Computer Science*

Houston, TX

*May 2027*

### Texas A&M University

*General Engineering*

College Station, TX

*Aug. 2023 – May 2024*

## PROJECTS

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### KEYBRD SIM 2D | *C++, OpenGL*

January 2025 – Present

- Engineered an interactive keyboard simulator in C++
- Modeled a modern keyboard that could be interacted with in OpenGL
- Used Data Structures such as maps to organize and streamline processes including user input

### Shadows of Lumina | *Python, Pygame*

September 2024 – Present

- Developed a 2D Rogue-like Video-game for HackRice 14 at Rice University
- Won First Place in the First-Timers track at HackRice 14
- Implemented Pygame to create a game with quality UX, sound, and visuals
- Worked with GitHub to Collaborate and work towards a common goal on a large scale project

### Graphit | *Processing, Java*

August 2024 – Present

- Created a Demo program using Processing and Java that is able to accurately graph functions
- Made use of Processing's vast Visual Elements and Documentation to create a satisfying visual experience
- Used Java Packages to streamline calculations and graphing

## TECHNICAL SKILLS

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**Languages:** C/C++, Python, Java, JavaScript, CSS, HTML, SQL, Processing, MATLAB

**Technologies:** OpenGL, Pygame, NumPy, GLUT, Matplotlib

**Relevant Skills:** Data Structures and Algorithms, Object Oriented Programming, Programming Design, Linear Algebra, Discrete Mathematics, Calculus III

## EXPERIENCE

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### Sports Trainer and Coach

August 2024 – Present

*YMCA of Greater Houston*

*Katy, TX*

- Worked closely with a group of diverse coworkers to provide a quality service
- Displayed Leadership Skills in controlling a high-intensity environment
- Explored ways to further engage and improve our sports program

### Youth Development Leader

June 2017 – August 2023

*Local Church*

*Richmond, TX*

- Organized and led weekly activities and lessons for youth at the church
- Communicated effectively with adult leaders to ensure all proceedings happened accordingly
- Consulted peers to gather feedback on how activities could improve or for their suggestions

## AWARDS

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### Academic All-State | *Academics, Athletics*

- Awarded for maintaining an A average while participating in sports for 4 consecutive years

### National Hispanic Recognition Award | *Academics*

- Awarded for demonstrating excellence on the PSAT/NMSQT

## LANGUAGES

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English, Spanish

Bilingual Proficiency