

Jonathan Contreras

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SUMMARY

Dedicated junior computer science student with a strong interest in low-level computer architecture, network security, and software development. Skilled in tackling complex technical challenges and eager to apply theoretical knowledge to innovative real-world solutions.

EDUCATION

Houston Christian University

Bachelor of Science in Computer Science

Houston, TX

Aug. 2022 – Present

- **Clubs:** Vice President for the Robotics and Engineering Organization (R.E.O)
- **Awards:** Recipient of HCU Presidential Scholarship (2022-2025), Grace Hopper Scholarship (2022-2025)
- **Relevant Coursework:** Advanced Data Structures and Algorithms, Operating Systems, Computer Architecture, Computer Network Security, Web Application Programming

EXPERIENCE

Undergraduate Data Science Researcher

The Data Mine - Purdue University

Aug. 2023 – Present

West Lafayette, IN · Remote

- Utilizing Python to implement data cleaning and visualization tools, providing actionable insights to the Houston Fire Department for enhanced decision-making.
- Developing data-driven strategies to optimize resource allocation and response times.

Computer Science Teaching Assistant

Houston Christian University

Aug. 2023 – Present

Houston, TX

- Holding weekly help desk hours to assist students with coursework and hands-on projects.
- Troubleshooting hardware and software issues for both professors and students and testing new technologies to incorporate them in the hands-on labs and projects.
- Assisting in the execution of an ABET-accredited curriculum by supporting professors in delivering coursework, guiding students through hands-on labs, and providing technical assistance to enhance the learning experience.

Intern Developer

Bible Study Fellowship

May 2024 – Sept. 2024

Houston, TX · Remote

- Researching and implementing open-source solutions to enhance website functionality.
- Assisting in migrating their current website to WordPress for better content management and scalability.
- Troubleshooting and resolving technical issues related to website hosting and content management.

PROJECTS

Portfolio Website | *React, Next.js, Figma*

Jan. 2023 – Present

- Demonstrating front-end development skills by building a responsive portfolio website in React
- Serves to display my skills and passions for Computer Science
- Independently planning, designing, and developing the React portfolio website.

Sky 5.O. | *Python, Open Computer Vision, Raspberry Pi, Tello Drone*

Mar. 2023 – May 2023

- Developed license plate recognition and tracking software using a DJI Tello Drone using the Python language.
- Implemented a keyboard-based flight control system and a GUI that enables the user to control the drone.
- Controlling the drone, it takes a picture then the program extracts the text from the photo storing the information on a text file.
- Received an “Innovation Award” for demonstrating exceptional creativity and originality in its concept and design.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, PHP, R

Frameworks/ Technologies: React, Next JS

Relevant Knowledge: Object-Oriented Programming, Data Structures, Algorithms, GitHub, Git, Raspberry Pi, Linux