Jonathan Contreras

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EDUCATION

Houston Christian University — Houston, TX
Bachelor of Science in Computer Science — *Aug. 2022 – Present*
- **Clubs**: Vice President for the Robotics and Engineering Organization (R.E.O)
- **Awards**: Recipient of HCU Presidential Scholarship (2022-2026), Grace Hopper Scholarship (2022-2026)
- **Relevant Coursework**: Advanced Data Structures & Algorithms, Operating Systems, Computer Architecture, Computer Network Security, Web Application Programming

EXPERIENCE

Research Analyst Intern — May 2025 – Present
Crime Stoppers of Houston Glenda Gordy Research Center — *Houston, TX*
- Auditing and documenting existing codebase and databases to improve system reliability, transparency, and performance.
- Developing and enhancing data processing pipelines to support accurate crime data analysis and reporting.
- Designing and implementing public-facing web pages to display processed data and research findings clearly.

Computer Science Teaching Assistant — Aug. 2023 – Present
Houston Christian University — *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.
- Supporting delivery of ABET-accredited curriculum by troubleshooting complex technical issues, mentoring 25+ students weekly through hands-on labs, and testing new technologies that enhance practical skill development.

Undergraduate Data Science Researcher — Aug. 2023 – May 2025
The Data Mine - Purdue University — *West Lafayette, IN · Remote*
- Developing Python-based data cleaning and visualization tools that analyze emergency response patterns, helping the Houston Fire Department reduce response times and optimize resource allocation across service areas.
- Developing data-driven strategies to optimize resource allocation and response times.

Intern Developer — May 2024 – Sept. 2024
Bible Study Fellowship — *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 | *Next.js, Tailwind CSS, TypeScript* — December. 2024 – 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 5.0 - License Plate Recognition | *Python, OpenCV, 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.
- Engineered an autonomous system where drone captures license plate images while maintaining stable flight, extracts text using OCR algorithms, and logs data with 85% recognition accuracy under controlled conditions.
- 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, Git/GitHub
Relevant Knowledge: Object-Oriented Design, Data Structures & Algorithms, Linux Systems, Raspberry Pi