

Jonathan Contreras

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EDUCATION

Houston Christian University

Houston, TX

Bachelor of Science in Computer Science

Aug. 2022 – May 2026

- **Clubs:** Vice President for Student Organization for Undergraduate Resources in Computing and Engineering (SOURCE)
- **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, Security Operations, Software Design and Engineering

EXPERIENCE

Research Analyst Intern — Full-Stack Component

May 2025 – August 2025

Crime Stoppers of Houston, Glenda Gordy Research Center

Houston, TX

- Built the public *At-A-Glance Statistics* webpage, turning crime data into a responsive, accessible UI.
- Designed and implemented API routes to securely fetch, aggregate, and cache crime data from internal systems and vetted public feeds.
- Developed a hybrid data-ingestion pipeline combining authenticated API requests with secured JSON feeds, low-latency updates without exposing sensitive internals.

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 labs and projects, and integrating new technologies that enhance practical skill development.

Undergraduate Data Science Researcher

Aug. 2023 – May 2025

The Data Mine - Purdue University

West Lafayette, IN · Remote

- Developed Python-based data cleaning/visualization tools that improved Houston Fire Department's response-time analysis, driving data-informed resource allocation.
- Developed data-driven strategies to optimize resource allocation and response times.

PROJECTS

SURGE — Agentic Network Analysis Tool | *Next.js, TypeScript, AWS, D3.js*

July 2025 – Present

- Designing the cloud/VM architecture and APIs connecting the autonomous agent, backend services, and the Next.js dashboard for real-time security insights.
- Building a dashboard with live data feeds, vulnerability prioritization, and interactive network topology/graph visualizations for risky nodes.
- Integrating outputs from Nmap/OpenVAS/Nikto/Metasploit and ML models (PyTorch classifier, GNN) to surface CVSS/EPSS-based risk and patch recommendations.

Portfolio Website | *Next.js, Tailwind CSS, TypeScript*

Jan. 2024 – Present

- Designed and developed a fully responsive personal portfolio website using Next.js, Tailwind CSS, and TypeScript to showcase projects, skills, and experiences.
- Optimized site performance with image optimization, code-splitting, and SEO best practices to ensure fast load times and discoverability.
- Integrated version control (Git/GitHub) and deployed the website on Vercel for reliable hosting and CI/CD workflow.

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/UNIX, Raspberry Pi, SEO, API