

Sthiber Guevara

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EDUCATION

University of Houston

Bachelor of Science in Computer Science

Expected: Dec. 2025

GPA: 3.97

Relevant Coursework: Algorithms and Data Structures, OOP, Database Systems, Data Science, Machine Learning, Operating Systems, Computer Networks, Parallel Computations of GPU, Discrete Math, Statistics

EXPERIENCE

ConocoPhillips Computer Science Learning Center

Tutor

Jan 2025 – Present

Houston, TX

- Tutoring over **15** students in programming and data structures, strengthening coding and problem-solving skills.
- Helped students develop algorithmic thinking and problem-solving skills, contributing to a **20%** GPA increase.
- Providing one-on-one support for homework and labs, reducing error rates by **33%** and guiding students to succeed in their coursework.
- Created extra practice problems beyond coursework to help students stay ahead and reinforce key concepts.

Computer Science Club Tutor

CougarCS - Tutor Scholarship Recipient

August 2024 – Present

Houston, TX

- Recipient of a scholarship from CougarCS for outstanding contributions as a tutor and presenter, dedicating significant time to tutoring sessions and leading workshops to enhance student learning and academic success.
- Collaborating with other tutors to design and present workshops, helping up to **50** students per workshop improve their understanding and readiness for exams.
- Providing feedback for data structure assignments coded in **C++**, enhancing students' understanding and reducing error rates by **25%**.
- Developing comprehensive materials, including slides and practice questions, to reinforce key concepts and encourage active learning.

PROJECTS

Womenwell | *JavaScript, React.js, Node.js, MySQL, Git, Tailwind CSS, Postman*

- Developed a **full-stack web app** with a responsive and modern UI using **React.js** and **Tailwind CSS**.
- Designed and implemented a **MySQL** database architecture to efficiently manage patient records, appointments, and medical history.
- Developed **8+ RESTful APIs** to enhance backend performance and scalability using **Node.js**.
- Utilized **Postman** to test API endpoints, ensuring seamless frontend-backend interaction for a dynamic website.
- Utilized **Git** for version control to track code changes and ensure project consistency.

Decluttr | *Python, Tkinter, ttkbootstrap, PyInstaller*

- Developed a desktop automation tool using **Python**, **Tkinter**, and **ttkbootstrap** to organize files based on user-selected types and folders.
- Applied **object-oriented programming (OOP)** principles to structure the application using modular and reusable classes.
- Implemented a GUI that allows users to select a directory, choose file extensions, and define a destination folder for cleanup.
- Automated file sorting and relocation using **shutil**, reducing manual desktop cleanup effort.
- Packaged the application into a standalone **.exe** using **PyInstaller** for easy desktop access and distribution.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, TypeScript, LaTeX, SQL, R, CUDA, Bash

Frameworks/Libraries: React, TailwindCSS, Node, Express, PyTorch, Pandas, NumPy, Matplotlib, Seaborn

Tools: Azure, Git, Postman, Figma