

Sthiber Guevara

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EDUCATION

University of Houston

GPA: 3.97

Bachelor of Science in Computer Science, Minor in Mathematics

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

Jan 2025 – Present

Tutor

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.

Computer Science Club Tutor

August 2024 – Present

CougarCS - Tutor Scholarship Recipient

Houston, TX

- Awarded CougarCS Tutor Scholarship for outstanding contributions to tutoring and workshops.
- Co-led workshops helping up to **50** students prepare for exams.
- Providing feedback for data structure assignments coded in **C++**, enhancing students' understanding and reducing error rates by **25%**.

PROJECTS

Volentra | *React, Node, Express, MySQL, Tailwind, Docker, Jest*

- Built a full-stack volunteer platform with a responsive UI using **React and Tailwind**, focusing on usability across all devices.
- Designed and containerized the frontend, backend, and database using **Docker** to ensure consistent deployment across environments.
- Implemented **12+ RESTful API endpoints** using **Node.js and Express**.
- Achieved over **90% test coverage** through **Jest** unit testing, improving backend reliability and reducing chances of regression.
- Used **Agile methodology** and **Git-based workflows** to coordinate development, track progress, and ensure continuous integration.

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.

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.

TECHNICAL SKILLS

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

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

Tools: Azure, AWS, Git, Postman, Figma, Docker