Sahil Sinha

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Education

Arizona State University Tempe, AZ

Bachelor of Science in Computer Science; GPA: 4.0 *Aug. 2022 – May 2026*

- Relevant Coursework: CSE 450: Design and Analysis of Algorithms, CSE 365: Information Assurance, CSE 310: Data Structures & Algorithms

Experience

Undergraduate Teaching Assistant January 2024 – Present

CSE 240 : Introduction to Programming Languages @Fulton School Of Engineering *Tempe, AZ*

- Enhanced understanding of C and C++ for 200 students, as demonstrated by improved performance and positive feedback, by providing useful feedback and assistance during office hours and in-class.
- Provided actionable feedback on course methods, as evidenced by comprehensive survey analysis of over 60 former students.
- Collaborate with 2 TAs to lead and organize a specialized workshop, increasing debugging proficiency among students as reflected by workshop participation and skill improvement.

Design Intern January 2023 – August 2023

Automation Projects @ EPICS-ASU *Tempe, AZ*

- Improved usability and system efficiency for an automated attendance system serving 800 students, as indicated by user feedback, by creating multiple wireframes in figma focusing on user experience.
- Ensured on-time execution and successful testing for ASU classes, as measured by reduced delays and effective testing, by coordinating testing schedule deployment for 4 classes.

Projects

say-hi | *Go, Fiber, JavScript, HTMX, Quotable API, HTML, CSS, Docker* sayhilel/say-hi

- Designed a portfolio website emulating a desktop environment, featuring an OSX-inspired terminal app navigated exvlusively via terminal commands and keystrokes.
- Implemented server-side rendering with AJAX calls using HTMX, Go and the Fiber framework, enhancing speed with htmx responses leading to faster initial load times of less than 200ms.
- Deployed the application on Google Cloud Run using Docker for scalability and efficiency.

mpac | *Rust, Tokio, Clap* sayhilel/mpac

- Developed a command-line interface (CLI) tool with a user-friendly design to streamline the process of asynchronously updating multiple repositories with a single command.
- Leveraged Rust's type and memory safety, along with Tokio's asynchronous capabilities, to perform actions concurrently, resulting in up to a 70% reduction in update time.

numConverter | *C++, make* sayhilel/numConverter

- A targeted educational tool that facilitates hands-on learning through structured debugging scenarios.
- Incorporating a range of deliberate mistakes to simulate common coding errors, enabling users to practice troubleshooting and debugging techniques.
- The Fixed version of the program can interchange numbers between base10, hex and binary.

Technical Skills

Languages: Go, C++, C, Python, Rust, SQL, JavaScript, HTML/CSS
Frameworks: Go-Fiber, Tokio, Flask, HTMX, FastAPI

Certificates & Interests

CodePath Cybersecurity: Completed Codepath's Cybersecurity course utilizing a range of cybersecurity tools throughout the course.
Devil's Invent: Attained the second place position in ASU's Devil's Invent Hackathon winning a prize of $1,000 while serving as a core team member overseeing conceptual design and hardware systems.
Dean's List: Attained a distinction on the Dean's List four times in a row for outstanding academic achievements.