

Sahil Sinha

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EDUCATION

Arizona State University

Bachelor of Science in Computer Science GPA:4.0

Tempe, AZ

Aug. 2022 – May 2026

EXPERIENCE

Undergraduate Teaching Assistant

Fulton School Of Engineering

January 2024 – Present

Tempe, AZ

- Enhanced understanding of C and C++ for 200 students, as demonstrated by improved performance and positive feedback, by leveraging leadership and communication skills during office hours and in-class support.
- Provided actionable feedback on course methods, as evidenced by comprehensive survey analysis from former students, by utilizing problem-solving and analytical skills.
- Increased debugging proficiency among students, as reflected by workshop participation and skill improvement, by organizing and leading a specialized workshop, showcasing mentoring and organizational skills.

Design Intern

Automation Projects @ EPICS-ASU

January 2023 – August 2023

Tempe, AZ

- Improved usability and system efficiency for an automated attendance system serving 800 students, as indicated by user feedback, by applying problem-solving and design skills to create detailed wireframes.
- Ensured on-time execution and successful testing for ASU classes, as measured by reduced delays and effective testing, by demonstrating organizational and communication skills in coordinating testing schedule deployment.

PROJECTS

say-hi | Go, Fiber, JavaScript, HTMX, HTML, CSS, Docker

[sayhilel/say-hi](https://sayhilel.com/say-hi)

- Designed a portfolio website emulating a desktop environment, featuring an OSX-inspired terminal app, an "About Me" page, a virtual TUI interface for showcasing projects, a landing page with a random quote generated using open source api, all navigated via terminal commands and keystrokes.
- Implemented server-side rendering with AJAX calls using Go and the Fiber framework, enhancing speed with htmx responses and a random quote API compared to traditional JSON responses.
- Deployed the application on Google Cloud Run using Docker for scalable and efficient hosting.

mpac | Rust, Tokio, Clap

[sayhilel/mpac](https://sayhilel.com/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](https://sayhilel.com/numConverter)

- Developed numConverter, a program designed to teach debugging and development practices through intentional errors to enhance coding skills.
- Incorporated 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

Developer Tools: Unix, Git, Docker, NeoVim, Google Cloud Platform, VS Code

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 pivotal 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.