# Sahil Sinha

| dev.sahilsinha@gmail.com | linkedin.com/in/sayhilel | github.com/sayhilel | sayhilel.com

## 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
*Fulton School Of Engineering @ ASU*                                                                              *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.

## PROJECTS

**verbalist** | *Python, Typescript, Llama, Whisper, Groq Cloud*                           github/sayhilel/Verbalist
- A productivity & accessibility VScode extention designed to bring the productivity of Vim motions to VScode using speech.
- Users can request the extention to delete, insert or replace any text in real time using large language models and VScode API.

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