

SAHIL SINHA

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EDUCATION

Arizona State University
B.S Computer Science **GPA- 4.0**

Tempe, AZ
Aug 2022 – May 2026

EXPERIENCE

Teaching Assistant

Jan 2024 – Present

Arizona State University

Tempe, AZ

- Led group labs for 70+ students, teaching critical programming concepts in Linux, C, and C++ such as memory management, data structures, and debugging, to strengthen foundational software engineering skills
- Mentored students in debugging and troubleshooting code, providing guidance on problem-solving and coding best practices, which improved student code quality and confidence
- Organized and led workshops on advanced debugging, Rust, and C++ code challenges, fostering collaborative learning and technical growth among students

Intern

June 2025 – July 2025

Capgemini America

Philadelphia, PA

- Produced technical coaching materials for client teams, supporting agile adoption and smoother integration with development processes and tools
- Improved visibility into sprint progress by identifying inconsistencies in weekly agile tracking data and enhancing report accuracy, laying the groundwork for future automation
- Architected an AI solution aimed at improving customer experience by developing a prototype during a case study to demonstrate feasibility and impact

PROJECTS

verbalist | VSCode extension enabling voice controlled Vim style text editing

Python, Typescript, Groq Cloud, Llama, Whisper

github.com/sayhilel/verbalist

- Built Python backend integrating Groq Cloud API for real-time speech processing and natural language command execution in VSCode
- Integrated Whisper speech recognition with custom prompt engineering to convert voice commands into VSCode API calls

say-hi | Personal website designed in the style of a terminal emulator interface

Go, HTMX, CSS, Javascript, TOML

github.com/sayhilel/say-hi

- Built a personal portfolio site simulating a terminal interface by designing a desktop experience navigable via keyboard commands, using Go and Fiber
- Reduced page load times to under 200ms by implementing server-side rendering with HTMX and AJAX
- Simplified content updates by implementing a TOML-driven structure for adding projects without changing backend code

mpac | CLI utility for tracking and updating multiple git repositories concurrently

Rust, Tokio, Clap

github.com/sayhilel/mpac

- Developed a Rust-based CLI tool to batch-update git repositories asynchronously, streamlining workflows with a single-command interface built using Clap
- Optimized update performance by executing concurrent fetch and pull operations with Tokio, reducing overall sync time by up to 70%

TECHNICAL SKILLS

Languages: C, C++, Python, Bash, Go (Golang), Rust, SQL, Java

Frameworks & Libraries: Tokio, Clap, HTMX, Groq Cloud, Llama, Whisper

Developer Tools: Git, Docker, Systemd, UNIX, Google Cloud Platform

AWARDS & EXTRACURRICULARS

Awards & Certificates: Dean's List (6 semesters), Devil's Invent (\$1200 prize), CodePath Cybersecurity 101 Certificate

Extracurriculars: Member - Linux User's Group