

Sahil Sinha

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EDUCATION

B.S. Computer Science Arizona State University, Tempe, AZ	May 2026 4.00 GPA
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PROFESSIONAL EXPERIENCE

Backend Developer <i>Sport Sitters (Capstone)</i>	Aug 2025 – Present Tempe, AZ
<ul style="list-style-type: none">Successfully migrated 1,200+ data entities (users, bookings, transactions, and reviews) to a new environment by engineering a custom migration script that re-validated addresses via Geocodio API and utilized caching to minimize Firestore read/write costsMaintained 100% operational uptime for administrative workflows by designing a thin compatibility layer to bridge the legacy admin panel with the updated NoSQL data model.	
Applications Intern <i>Capgemini America</i>	Jun 2025 – Jul 2025 Philadelphia, PA
<ul style="list-style-type: none">Created a RAG architecture for a food delivery chatbot, integrating LLM and embedding models, a vector database, and serverless compute to enable contextual retrieval with real-time order data access, improving customer experience as part of a case studyProduced technical coaching materials for 8+ development teams, improving agile adoption and enhanced sprint progress visibility by resolving tracking inconsistencies and boosting report accuracy	
Teaching Assistant <i>Arizona State University</i>	Jan 2024 – Dec 2025 Tempe, AZ
<ul style="list-style-type: none">Led labs for 70+ students, teaching programming fundamentals in Linux, C, and C++, including memory management and data structures.Mentored 200+ students on debugging and best practices, improving code quality and problem-solving skills.	

PROJECTS

mpac <i>CLI utility for tracking and updating multiple git repositories concurrently</i>	github/sayhilel/mpac
<ul style="list-style-type: none">Developed a Rust-based CLI tool to batch-update git repositories asynchronously, streamlining workflows with a single-command interface built using ClapOptimized update performance by executing concurrent fetch and pull operations with Tokio, reducing overall sync time by up to 70%	
say-hi <i>Personal website designed in the style of a terminal emulator interface</i>	github/sayhilel/say-hi
<ul style="list-style-type: none">Containerized and deployed personal portfolio website using Docker on Google Cloud Run; later migrated infrastructure to Heroku for simplified CI/CD and 64% reduction in monthly costsReduced page load times to under 200ms by implementing server-side rendering with HTMX and AJAXSimplified content updates by implementing a TOML-driven structure for adding projects without changing backend code	
verbalist <i>VSCODE extension enabling voice controlled Vim style text editing</i>	github/sayhilel/verbalist
<ul style="list-style-type: none">Implemented Python backend to convert speech to editor commands using Whisper(Transformer) and Llama3(LLM) via Groq API, resulting in 1.8s average CPU execution timeIntegrated custom prompt engineering to convert transcribed speech into valid, structured commands for the VSCODE extensions API	

TECHNICAL SKILLS

Languages: C, C++, Python, Bash, Go, Rust, SQL, Java

Libraries & Frameworks: PyTorch, Numpy, Tokio, Clap, HTMX, Sounddevice

Tools & Platforms: Git, Docker, Systemd, UNIX, CMake, Google Cloud Run, Groq Cloud, Wireshark, Metasploit

AWARDS & EXTRACURRICULARS

Dean's List: Awarded for 7 consecutive semesters for academic excellence

Devil's Invent Hackathon: 1st runner-up; awarded \$1,000 for prototyping an automated attendance system

CodePath Cybersecurity 101: Covers Access Control, Malware Analysis, and Networking