

# SAHARSH BHANSALI

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## PROJECT EXPERIENCE

**CLI - Top** 🔗 | Go, Cobra, Glamour, GitHub Actions, BurpSuite\* Dec, 2023 - Jan, 2024

- **Unofficial** CLI to access the university's Learning Management System (LMS); used by 400+ students.
- Developed key features – autologin, attendance alert, kill-switch for centralized control, and mark totaling.
- Built a CI/CD pipeline to distribute binaries using GitHub Actions.

**Tally Stock** 🔗 | Go, NextJS, Python, Docker Sept, 2023 - Dec, 2023

- Experimental inventory management system, to self-learn full stack development.
- Backend: Go, gofiber, and gorm
- Frontend: TypeScript, NextJS, TailwindCSS, MaterialUI, and ShadcnUI. CLI Frontend: Python
- Infrastructure: Docker (local application)

**Career Node** 🔗 | OpenAI GPT-3.5 API, TypeScript, Flask June, 2023

- Integrated the OpenAI GPT-3.5 API for personalizing responses to users' resumes.
- Crafted prompts to extract information from resumes, suggest career paths, and curate learning material.
- 2023 Yantra "Main Hack" Education Track Winner.

**Access Denied** 🔗 | Python, JavaScript, **Jupyter Notebook** 🔗 Dec, 2022

- Built a decentralized authentication system from scratch using Zero-Knowledge Proofs (ZKPs).
- Led the team in ideation, researching ZKPs, and translating complex theories into a CLI demonstration.

**Self-Taught Tinkerer**\*

- **System Administration** 🔗 | Shell Scripting, Chezmoi, GNU Stow, Nix, Ansible: A development setup and streamlined workflow, with automated configuration management, rapidly deployable on multiple platforms.
- **Home Labs, CTFs, and Bug Bounties** | BurpSuite, Ghidra, Metasploit, JohnTheRipper, Gobuster, Exiftool, ReconDog, VirtualBox, ParrotOS, Kali Linux: Learning cyber-security through hands-on exercises.
- **Personal Site** 🔗 | Jekyll, Markdown, GitHub Pages, LaTeX: A static website to showcase my professional profile and skills.

## EXTRA CURRICULAR

**Association for Computing Machinery - Student Chapter** June, 2022 – Present

*Research Lead* VIT, Vellore

- Developed questions for the Reverse Coding (RC) contest with 500+ contestants.\*
- Built CI/CD pipelines for RC using GitHub Actions, Docker, and CMake for multi-platform question binaries.
- Facilitated Cryptic Hunt - a 3-day, annual, campus-wide, hybrid treasure hunt, with 700+ participants.
- Speaker and organiser at CodexCryptum, a cryptography and cybersecurity bootcamp, for 2 years.
- Played key roles in hackathons as a participant, review panel member, and event manager.
- Participated in Capture The Flag competitions, following my passion for research and problem-solving.

## CERTIFICATIONS

- **Solutions Architect Associate (SAA)** - Amazon Web Services (AWS) 🔗
- **Certified Cloud Practitioner (CCP)** - Amazon Web Services (AWS) 🔗

## EDUCATION

**Vellore Institute of Technology** July, 2021 – July, 2025

*Bachelor of Technology - Computer Science and Engineering - CGPA - 9.17* Vellore, India

**Bhavan's Rajaji Vidhyashram** June, 2019 – June, 2021

*CBSE - Physics, Chemistry, Math, Computer Science - Percentage - 96.4%* Chennai, India

## TECHNICAL SKILLS

- **Technologies/Frameworks:** Git, BurpSuite, ZAP, Nessus, Ghidra, Metasploit, Ida, JohnTheRipper, Gobuster, Exiftool, Infoga, ReconDog, Docker, AWS
- **Languages:** Python, Shell Scripting, C/C++, Go, Java, JavaScript, TypeScript, SQL, NoSQL, R
- **Developer Tools:** VMWare, VirtualBox, Parrot OS, Kali Linux, GitHub, Nix, Ansible