

SAHARSH BHANSALI

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology - Computer Science and Engineering - CGPA - 9.17

July, 2021 – July, 2025

Vellore, India

Bhavan's Rajaji Vidhyashram

CBSE - Physics, Chemistry, Math, Computer Science - Percentage - 96.4%

June, 2019 – June, 2021

Chennai, India

TECHNICAL SKILLS

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

WORK EXPERIENCE

Stealth Startup

June, 2024 – Dec, 2024

Freelance | AWS, Nginx, Docker, Django, PyTest

Remote

- Provisioned cloud and security infrastructure. Set up API servers and reverse-proxy for different endpoints.
- Set up a Dockerized, self-hosted Supabase instance [↗](#), with an externally managed Postgres database on a local docker network. Integrated the API service with the database, Supabase Realtime, and Supabase Auth.
- Created a test suite to unit-test the API using PyTest and Django's testing framework.

PROJECT EXPERIENCE

Decentralized Voting [↗](#) | FastAPI, PyTest, Docker, Jupyter Notebook [↗](#)

Sept, 2024 – Nov, 2024

- Built an API for a decentralized referendum platform using alternative voting systems.
- Visualized the difference between traditional voting and alternative systems like Ranked Choice Voting.
- Implemented a Zero Knowledge Proof based user authentication system.
- Containerized the backend for easy and consistent deployments across systems.

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.

Inventory Management System [↗](#) | Go, NextJS, TypeScript, TailwindCSS, Docker Sept, 2023 - Dec, 2023

- Experimental inventory management system, to self-learn full stack development.
- A Dockerized Go API using gofiber and gorm, and NextJS frontend using MaterialUI and ShadcnUI.

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.

EXTRA CURRICULAR

Association for Computing Machinery - Student Chapter

June, 2022 – Oct, 2024

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.

CERTIFICATIONS AND ACHIEVEMENTS

- **Solutions Architect Associate (SAA-C03)** - Amazon Web Services (AWS) [↗](#)
- **Certified Cloud Practitioner (CLF-C02)** - Amazon Web Services (AWS) [↗](#)
- 2023 Yantra "Main Hack" - Education Track Winner (Career Node), VIT - Vellore.