

# SAHARSH BHANSALI

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## 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 | [deep dive](#)

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.

### 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.

### Self-Taught Tinkerer | [deep dive](#)

- **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. | [deep dive](#)
- 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.

## 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*