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.

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.

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_