# SAHARSH BHANSALI

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## EDUCATION

**Vellore Institute of Technology**                                        **July, 2021 – July, 2025**
*Bachelor of Technology - Computer Science and Engineering - **CGPA** - **9.18***                 *Vellore, India*

## WORK EXPERIENCE

**Bain & Company (BCN)**                                                **Jan, 2025 – Present**
*Analyst, Intern* | Python, Pandas, FastAPI, Azure, Docker, Plotly-Dash, NextJS            *On-site*
- Developed dashboards using Python, Pandas, and Plotly-Dash/ReactJS migrating out of Tableau, with a projected savings opportunity of $200K per annum in licensing costs.
- Deployed and maintained multiple tools with Docker and Azure. Optimized existing tools' performance (10x latency reduction) and scalability (multi-user support and load balancing).
- Intergated AI into toolkits using OpenAI Chat & Responses APIs, LangChain, and LangGraph.

**Stealth Startup**                                                    **June, 2024 – Dec, 2024**
*Freelance* | AWS, Django, PyTest, Nginx, Docker                                *Remote*
- Provisioned cloud and security infrastructure. Set up API servers and reverse-proxy for different endpoints.
- Dockerized and self-hosted a Supabase instance, with an externally managed Postgres database on a local docker network. Integrated API with Supabase (Database, Realtime, & 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.

## TECHNICAL SKILLS

- **Technologies and Frameworks:** Git, Docker, AWS, Azure, FastAPI, Pandas, NextJS, ReactJS, Plotly-Dash, Redis, OpenAI API, LangChain, LangGraph, Alteryx, Tableau, PowerBI, BurpSuite, Nessus, Ghidra, Metasploit, JohnTheRipper, Gobuster, Exiftool, Infoga, ReconDog
- **Languages:** Python, Shell Scripting, C/C++, Go, Java, TypeScript, SQL, NoSQL, R
- **Developer Tools:** VMWare, VirtualBox, Linux, GitHub, Neovim, Excel

## 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 

## 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.