SAHARSH BHANSALI

⌂ Chennai, TN, India ☎ +91-9941286420 ✉ saharsh.bhansali15@gmail.com 🔗 saharsh-bhansali ⭘ saharshbhansali

WORK EXPERIENCE

Bain & Company (BCN)   **Jan, 2025 – Present**
Analyst | Pandas, SQL, PySpark, FastAPI, Azure, GCP, Docker, Plotly-Dash, NextJS   *On-site*
- Built and deployed a SparkSQL ETL framework on GCP (Dataproc, BigQuery) for a large US retailer, using PyTest & GitHub Actions for CI/CD.
- Integrated ETL pipeline execution with a custom orchestration system, validated in test and production cloud environments, and led on-site handover sessions (20 hrs).
- Implemented a DuckDB- and SQL-based ETL pipeline for a UK & Ireland retailer, orchestrating SQL execution via Python for lightweight analytics workloads.
- Developed dashboards using Pandas and Plotly-Dash/ReactJS migrating out of Tableau, resulting in $200K per annum saved in licensing costs.
- Deployed and maintained multiple tools with Docker and Azure. Optimized existing tools for performance (10x latency reduction) and scalability (multi-user support and load balancing).
- Integrated AI into toolkits using OpenAI Chat- & Responses-APIs, LangChain, and LangGraph.

Stealth Startup   **June, 2024 – Dec, 2024**
DevOps & Application Engineer | 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) APIs
- Created a unit-test suite for 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.

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.

TECHNICAL SKILLS

- **Technologies and Frameworks:** Git, Docker, AWS, Azure, GCP, FastAPI, PySpark, 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

- **Solutions Architect Associate (SAA-C03)** - Amazon Web Services (AWS) ⬈
- **Certified Cloud Practitioner (CLF-C02)** - Amazon Web Services (AWS) ⬈

EDUCATION

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

EXTRA CURRICULAR

Association for Computing Machinery - Student Chapter   **June, 2022 – Oct, 2024**
<u>*Research Lead*</u>   *VIT, Vellore*

- Developed questions for the Reverse Coding (RC) contest with 500+ contestants.*
- Built CI/CD pipelines for Reverse Coding 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.