

SAHARSH BHANSALI

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology - Computer Science and Engineering - CGPA - 9.18

July, 2021 – July, 2025

Vellore, India

WORK EXPERIENCE

Bain & Company (BCN)

Jan, 2025 – Present

Analyst | Python, Pandas, SQL, PySpark, FastAPI, Azure, Docker, Plotly-Dash, NextJS

On-site

- Built and deployed a Python & SparkSQL ETL framework on GCP (Dataproc, BigQuery) for a large US retailer, using PyTest & GitHub Actions for CI/CD and a client-internal orchestration tool for pipeline scheduling.
- Integrated pipeline execution with a client-internal orchestration system, validated in 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 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).
- Integrated 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

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

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, 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)

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.