

# SAHARSH BHANSALI

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## 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, including CI/CD with PyTest and GitHub Actions.
- 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, 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\*

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.

## 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.

## 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 - 9.17**

Vellore, India