

SAHARSH BHANSALI

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WORK EXPERIENCE

Bain & Company (BCN) <i>Analyst</i> Python, Pandas, SQL, PySpark, FastAPI, Azure, Docker, Plotly-Dash, NextJS	Jan, 2025 – Present	<i>On-site</i>
<ul style="list-style-type: none">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 <i>Freelance</i> AWS, Nginx, Docker, Django, PyTest	June, 2024 – Dec, 2024	<i>Remote</i>

- 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
<ul style="list-style-type: none">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 <i>Research Lead</i>	June, 2022 – Oct, 2024	<i>VIT, Vellore</i>
<ul style="list-style-type: none">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 <i>Bachelor of Technology - Computer Science and Engineering - CGPA - 9.17</i>	July, 2021 – July, 2025	<i>Vellore, India</i>
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