

Yatharth Sood

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EXPERIENCE

Cisco Systems, Inc.

Bengaluru (Remote)

Data Analyst, BI Platforms Team, Global Supply Chain

2022-Present

- Built and deployed a Python Flask RESTful API on Google Cloud Run, processing Snowflake data through SQL extraction and pandas transformation pipelines to serve a React frontend — replacing 20+ Tableau and ThoughtSpot dashboards and saving \$100K+ in licensing and development costs, with sole end-to-end ownership from backend architecture to production deployment.
- Implemented Redis caching and Role-Based Access Control (RBAC) as the platform's primary infrastructure owner, supporting 300+ users across multiple teams, enforcing Cisco Data Policy compliance while enabling automated email and Webex alerting with sub-second query performance.
- Engineered Python-based replacements for two Webex bots serving 1,000+ active users each, addressing Oracle DB network restrictions without lengthy legal/IT intervention by deploying Dockerised services on an internal Cisco Linux server — achieving full adoption with zero operational disruption and maintaining backward logging compatibility.
- Designed complex SQL views and transformation logic to normalize malformed source data into reporting-ready schemas, enabling accurate adoption metrics for 15+ NPI supply chain tools and supporting large-scale data migration in collaboration with IT.
- Containerised, deployed, and maintained backend applications on GCP (Docker, Cloud Run, Cloud Functions), eliminating reliance on IT provisioning and enabling rapid, reliable releases.
- Automated manual data pipeline processes in Python, saving 10–15 hours monthly and driving IT independence for adjacent teams, contributing to an additional \$200K+ in cumulative budget savings over three years.

Data Analyst Intern

Feb 2022 – July 2022

- Developed a framework-agnostic Python backend over Snowflake to prove the viability of API-driven data delivery — implemented as a Webex bot for Supply Chain leadership, scaled to 300+ users and 100,000+ Snowflake queries, on Google Cloud Functions at near-zero operational cost.

PROJECTS

Spotify Data Analytics | [Kaggle Notebook](#)

- Designed and published a Kaggle notebook that constructs a longitudinal music chart dataset from scratch and implements custom ranking algorithms to track song/artist persistence, re-entry patterns, and year-over-year positional drift across Spotify Wrapped cycles.
- Engineered a data aggregation pipeline to consolidate Spotify Wrapped countdowns across multiple years into a unified, queryable dataset — filling a gap Spotify's own platform doesn't address to build my statistical analysis.

Phone Media Server | [Article](#) | [GitHub](#)

- Architected a media server (ingest via BitTorrent, serve via HTTP over LAN and Tailscale) on an Android phone via Termux, within strict platform constraints (no containerization, limited CPU/memory), with proven CLI-based tools with HTTP frontends as core services based on lightweight footprint and protocol support, for personal use.
- Deployed persistent service orchestration using tmux and boot automation within Termux, solving practical constraints (storage constraints, electricity overspending and battery management for the phone) while maintaining always-on availability with zero operational cost.

Various Keyboards and Related PCB Projects | [KiCad, basic electronics](#)

- Forayed into hobbyist PCB design as a way to better engage with my interest in keyboards, modern and vintage.
- Designed a [USB-C based IBM Model M keyboard controller](#), several modern keyboard PCB redesigns and some smaller converter PCBs.

EDUCATION

Manipal Institute of Technology

Manipal, KA

Bachelor of Technology, Electrical and Electronics Engineering

2018-2022