

SAURABH CHOPRA

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EXPERIENCE

V7

Senior Platform Engineer

London, UK
Oct 2023 - Present

- Maintain audit-ready SOC2 Type II, ISO 27001, HIPAA, and GovRAMP controls across AWS/GCP/Azure using Terraform and Secureframe; own IAM, Auth0 SSO/SCIM, and the central secrets pipeline from 1Password to AWS Secrets Manager.
- Own V7's runs-on self-hosted GitHub Actions platform on AWS for all CI; hardened the supply chain with pinned actions, runner hardening, Packer-based image rebuilds, and Dependabot rollout.
- Operate Northflank per-PR preview environments across V7's frontend and backend repos, giving reviewers disposable full-stack environments for each change.
- Own the Grafana observability stack across environments; migrated on-call from PagerDuty to incident.io and launched V7 Go's 24/7 public status page with Site24x7 synthetic monitoring.
- Operate RDS/Postgres for V7 Go, including major-version upgrades, maintenance windows, on-call cover, and disaster-recovery validation across V7 Go and V7 Darwin.
- Built and launched V7 Go on GCP using GKE, Argo, and a GCP Marketplace listing; rolled out circuit-breaker protection across US and UAE production regions.

X-Chem (Glamorous AI)

Machine Learning and MLOps Engineer

London, UK
Apr 2022 - Oct 2023

- Co-built ArtemisAI, a no-code ML training and prediction platform running scheduled large-scale jobs on production datasets.
- Built the Job Server on Metaflow and Argo Workflows on EKS, integrated with Prometheus and OpenCost; managed infrastructure in Terraform across EKS, EC2, ECR, RDS, S3, and Secrets Manager.
- Re-platformed workloads off AWS Spark EMR, making training and prediction jobs 50% faster while reducing CPU/GPU consumption by 80% and moving most workloads to Spot.
- Built CI/CD across multiple repos (GitHub Actions, AWS CodeBuild, AWS CodeDeploy); shipped pip-installable internal Python wheels via poetry/setuptools with 100% test coverage on core packages.
- Built Generative-Zoo, a GPU-instance server fronting 7 Docker containers via the docker SDK for Python, later migrated to Argo Workflows.
- Maintained the team's JupyterHub used daily by internal researchers.

Segmind

SDE, Open Source

Remote
Aug 2021 - Mar 2022

- Built an MLOps platform for deep learning with multi-tenant JupyterHub and VSCode servers.
- Maintained segmind, the PyPI CLI controlling the platform.
- Forked MLflow into mlflow-lite, customised for experiment tracking and deeply integrated with the Segmind platform.

GramPower

Full Stack Lead

Jaipur, India
Dec 2019 - Aug 2021

- Scaled smart-meter integration from 40 to 40,000 production meters and load-tested to 200,000 using SOAP/REST services on Django, Spyne, and Flask.
- Built appliance-disaggregation ML workflows on live time-series data and productionised Postgres + TimescaleDB on AWS EC2.

Thoughts2Binary

Full Stack Developer

Gurugram, India
Jun 2018 - Dec 2019

- Migrated a Django monolith to serverless on AWS Lambda/SNS/S3; built reusable core services for the middleware platform.
- Built custom plugins for Drupal Commerce 2, WooCommerce, and Kentico; integrated Stripe, PayPal, and US tax APIs.

SKILLS

Languages: Python (expert), Go, Rust, Bash
Cloud: AWS (expert), GCP, Azure
Infrastructure: Terraform, Kubernetes, Docker, Argo Workflows, Packer
CI/CD: GitHub Actions (runs-on), AWS CodeBuild/CodeDeploy, Northflank
Observability: Grafana (AMG/AMP/Tempo), Prometheus, incident.io, Site24x7
Security & compliance: SOC2, ISO 27001, HIPAA, GovRAMP, Secureframe, Wiz, Auth0, 1Password
Data: PostgreSQL (RDS), Redis, TimescaleDB, S3
ML (background): PyTorch, TensorFlow, Metaflow

EDUCATION

Royal Holloway, University of London Egham, Surrey, UK
MSc Artificial Intelligence Sept 2021 - Sept 2022

Anand International College of Engineering Jaipur, India
B.Tech Computer Science Aug 2014 - Jun 2018

PUBLICATIONS

Human Action Recognition Using Multi-Stream Fusion and Hybrid Deep Networks
<https://ieeexplore.ieee.org/document/10393912> IEEE, 2024