

Arnav Singh Chauhan

London, UK | +44-7479903741 | webarnav@gmail.com

EDUCATION

RAJASTHAN TECHNICAL UNIVERSITY
B.TECH IN COMPUTER SCIENCE
2011-2015 | Jaipur, RJ

SKILLS

PROGRAMMING

Python • GoLang • Javascript

WEB FRAMEWORKS

Django • FastAPI • Flask • Celery

DATASTORES

MongoDB • Postgres • Elasticsearch •
RabbitMQ • S3 • Kafka • MySQL

NETWORKING AND DEVOPS

HAProxy • Nginx • UWSGI • Supervisor •
Ansible • Terraform • Kubernetes •
Fabric • NewRelic • ELK/EFK •
Prometheus/Grafana

AI AND MLOPS

PydanticAI, LangChain • MLOps (AWS
Batch and self-managed Linode/e2e cloud)

CLOUD PLATFORMS

Linode • AWS

LINKS

LinkedIn:// [arnavsinghchauhan](#)

Github:// [arnav-pc](#)

Website:// [arnavsinghchauhan.com](#)

EXPERIENCE

PRIVATECIRCLE | LEAD SOFTWARE ENGINEER - PYTHON

Sept. 2017 - Present | Remote

- 3rd engineer to join the team. Promoted from early engineer to Engineering Manager, managing a cross-functional team of **10 engineers across Backend and DevOps**.
- **Led and scaled engineering team** (Backend + DevOps) from 3 to 10 members. Mentored and coached engineers, conducted code reviews, and set best practices for microservices, CI/CD, and infra automation.
- **Led the Signals product** – delivering real-time change events in financial data (feeds, newsletters) using Python AsyncIO, MongoDB, Elasticsearch, FastAPI, and RabbitMQ. This **opened new revenue streams**.
- Guided the development of EntityMaster, a matching engine using ML + fuzzy logic for linking companies and people across datasets.
- **Cost optimization** involving migration to self-managed databases, Linode to AWS for non-prod envs, application migrations to Kubernetes. This approach reduced overall monthly infra bills by **25%**
- Developed **AskPC**, an Agentic AI research assistant for PrivateCircle, FastAPI orchestrator + sub agents for Indian company intelligence.

CELEBAL TECH | DATA SCIENTIST

May 2016 – Sept. 2017

- Developed a natural language query interface over SQL databases using NLP techniques. Improved data accessibility for nontechnical users.

PROJECTS

CDC FOR EVENT-DRIVEN ARCHITECTURE

- Delivered the move from batch ETL to streaming using CDC on MongoDB and PostgreSQL.
- Developed Python packages (CDC-Watcher) for publishing and (CDC-consumers) for consuming change streams to hide integration complexities from developers. Used Python Click package to support command line utilities. Extended to support Django management commands.

STANDARDIZATION OF 30+ DATA CRAWLING PIPELINES

- Led the standardization of 30+ data crawling pipelines by identifying common patterns. Automated project generation using cookie-cutter templates with predefined project structures, Helm charts, GitHub workflows, and shared infrastructure to streamline development and deployment.

AUTOMATED DATABASE DEPLOYMENTS

- Took ownership of setting up and automating database clusters (Mongo, PostgreSQL, Elasticsearch, RabbitMQ).
- Created Ansible + Terraform automation via GitHub Actions to spin up clusters in hours instead of weeks.
- Coordinated with DevOps teammates to keep things reliable with health checks, logging, backups and monitoring.

HYBRID TEXT SEARCH WITH ELASTICSEARCH

- Semantic and Hybrid (Semantic + Lexical) search implementation for search Agentic Search use cases along with a custom DSL package that worked nicely with Django + Mongo Engine models.