

ROUNAK DATTA

rounakdatta12@gmail.com ◇ rounakdatta.github.io ◇ /rounakdatta ◇ +91 9432201722

EDUCATION

SRM Institute of Science and Technology
B.Tech, Computer Science, CGPA: 8.90/10

Chennai, India
Jul '16 - May '20

EXPERIENCE

CommandK

Founding Engineer (Backend, Infrastructure)

Bengaluru, India
Aug '22 - Mar '24

- Collaborated in the zero-to-one building of a modern secrets and configuration management platform. From **decoupled RBAC** to **infra-as-code** in Pulumi, from **Kubernetes operators** to **cloud-native admission-controllers**, got the chance to wear multiple hats from platform engineering to API development.
- Successfully navigated the intricacies of architecting **multi-cloud deployments**, both on-premise and hosted.

Disney+ Hotstar

Software Development Engineer I → II (Data Platform, Growth Engineering)

Bengaluru, India
Jul '20 - Jul '22

- Designed & implemented a **streaming data quality framework** which validates incoming events at the ingestion layer; built its self-serve tooling (visual schema editor), CLI complements and at-rest data quality suite.
- Addressed a wide range of production incidents wearing the **on-call engineer** hat (including mega events **IPL '20, '21, '22**); across self-hosted Hive/Spark/Kafka/Flink/Presto.
- Took lead in implementing our re-architected **Change-Data-Capture framework** (CDC) to improve parallelization, configurability, reliability and data-freshness; introduced GitOps into Airflow CDC pipelines.
- Led the foundational efforts in **Growth Engineering** team to enable Data Platform, Subscriptions & Payments services to new markets in South-East Asia; introduced major refactors (like async customer-facing APIs) to the subscriptions partnership framework which cut down new onboarding times by over 80%.
- Designed and architected a fault-tolerant backend for supporting **Android in-app-payments** for subscriptions across India and SEA apps.
- Drove the development and release of the highly extensible framework behind **Disney+ Worldwide Pre-Launch & Landing experience**.

Intern (Data Platform) → PPO



June '19 - Jul '19, Jan '20 - Jun '20

- Designed and developed a **storage-layer resource optimization** framework, which when benchmarked achieved xx% improvements in query times and x% reductions in data lake storage costs.
- Crafted a batch **data metrics collection** job, greatly enabling visibility and static monitoring of data sanity.

Guvi Geek Networks

Intern (team of two)









Chennai, India
Mar '18 - Jul '18, Dec '18

- Built out the first iteration of Guvi 2.0 platform, an **adaptive learning platform** (via rule-based algorithms).
- Developed an in-house **resume parsing** system with sub-second retrieval latency for 20K+ entities; our software supports a diverse range of resume formats. Released as OSS .
- Architected an English **spelling & grammatical corrector** using classical NLP methods; achieved around 73% accuracy when benchmarked with Grammarly & human proofreading. Released as OSS .

STRENGTHS

Programming Languages	Kotlin, Java, Go, Python, OCaml, Nix
Databases	PostgreSQL, MySQL; Prometheus, InfluxDB; Apache Hive
Frameworks	Apache Spark, Apache Kafka, Spring Framework; Pulumi, Terraform
Application Development	Android SDK, Ionic Cordova, ReactJS

SELECTED PROJECTS

- **smolgrad.ml**  - An educational implementation of automatic differentiation and neural networks in OCaml.
- **GoDFS**   - Implementation of a toy distributed filesystem (inspired from GFS & HDFS) in Go, with the aspects of heartbeat & secondary namenode for fault tolerance.
- **Argus (PagerDuty for Things)**   - An IoT project exhibiting continuous monitoring of fluid level and automated alerting on mobile devices. From ESP32 firmware development (C) to backend service (Go) to cross-platform app (Ionic Cordova), I solo-developed it all.
- *Open-source contributions* include projects like **Gopass** , **Android-Password-Store** , **Apache Airflow** .