

# Aviral Srivastava

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## EDUCATION

**Boston University**, Boston, MA.

Sep 2019 - Dec 2020

- MS, Computer Science. CGPA : 3.77/4

• **Subjects:** Graduate Distributed Systems (MIT), Advanced Analysis of Algorithms, etc.

**Vellore Institute of Technology**, Chennai, India.

Jul 2014 - May 2018

- B.Tech, Computer Science and Engineering. CGPA : 3.56/4

## SKILLS

- **Languages:** Python, Scala, C++, Go, Java, PHP, Rust, SQL, MySQL, PostgreSQL
- **Technologies:** Spark, Dask, Aurora, Mesos, Kubernetes, Docker, Vagrant, Argo, Airflow, Kafka, Pulsar, Celery, Flink, Snowflake, Cassandra, RocksDB, PrestoDB, KyotoDB, Redis, Django.
- **Platforms:** AWS, GCP, Azure, On Premise Data Centers

## WORK

### EXPERIENCE

**Twitter**, Software Engineer II, Graph Storage(Platform/Real Time Storage), NYC

Apr 2021 - Present

- We are replacing the decade old [Flock](#) (Graph Storage service) with a new service (Flock v1.5) that will scale the write pipeline, improve data consistency, and reduce human ops.
- Led setting up v1.5 as a multi-Data Center setup.
- Proposed, designed, and developed [Backup Verification](#) in **Scala**: a service to verify 300 TB of backups as they (backups) are used in v1.5 to serve live traffic.
- Performed [oncall operations](#) such as rebalancing shards, restoring servers during heatwave, modifying mirrorsets to cater fast product iterations, etc.
- Led the team for building a [managed graph database offering](#) for analytics purposes, graph machine learning, and applications. Reduced onboarding time from 1 week to minutes, for data teams at Twitter.
- Supervised request based authorization for Flock data, mentored two interns.

**Find Signal**, Technical Advisor

Sep 2019 - Present

- Find Signal is a studio building products that accelerate adoption of web3. Currently building on Solana and Polkadot.
- Advise technical operations for challenges the teams face in Distributed Systems

**Redhat**, Software Engineering (Data) Intern, Internal Data-Hub team, Boston

May 2020 - Dec 2020

- Re-partitioned the schema of [SOS reports](#) (**10 Trillion+ rows, 100+ TeraBytes** data) to ensure high data availability and low latency. **Reduced** the count of S3 objects by more than **90%**: from 15M+ objects to < 1M objects.
- Standardized data workflows for the internal teams using **Argo, Spark, JupyterHub, Kubernetes** that led to scalable visualization and alerting dashboards.

**Boston University**, Research Associate (Software Engineering), Boston

Sep 2019 - May 2020

- Got funded by MIT-ICORPS for commercializing the research for improving software quality.

**Atlan**, Software Engineer(Data)

May 2018 - Jul 2019

- Atlan is a data democratization startup that helps data teams collaborate frictionlessly on data projects.
- Ensured the development and on-premise deployments of dashboards like [United Nations SDGs monitoring](#), [Ujjwala Dashboard](#) using **Python3, Kubernetes, Docker and AWS S3**.
- Integrated serverless JupyterHub: a multi-user hub that spawns, manages, and proxies multiple instances of the single-user Jupyter notebook server. Stack: **papermill, Python3, Docker, Helm, Kubernetes**. Used by companies like **Unilever, Mindshare, McKinsey & Co.**
- Built and deployed Data Repository: a version control system for tabular data, including features like 'git diff', rollback, at a scale of over **billion rows in one cycle**. Stack: **Python3, S3, RocksDB, KyotoDB, Hive metastore and PrestoDB**. This scaled the production releases by **300%**: 1 project release to 3 projects release per quarter.

**Centify**, Co-founder, CTO

Mar 2018 - Jul 2018

- Audience Engagement tools which enable digital media platforms to integrate social media reactions with video or textual content.
- Built the complete system for processing social media content and applying emotional as well as sentimental analysis. Got featured on [IBM's developer blog](#)

## PROJECTS

- [Zcash](#), [Scalable UML](#), [Polkadot-IPFS](#), etc.