

Aviral Srivastava

- [Github: kebab-mai-haddi](#) • [LinkedIn: /in/sriavi](#) • [Website: aviralsrivastava.com](#)
- [Email: hi@avisri.com](mailto:hi@avisri.com) • +1-617-283-3811 • [Blog](#)

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 - Feb 2023
- 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.