

Aviral Srivastava

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EDUCATION	Boston University , Boston, MA. Sep 2019 - Dec 2020 (Expected) <ul style="list-style-type: none">▪ MS, Computer Science. CGPA : 3.77/4 Vellore Institute of Technology , Chennai, India. Jul 2014 - May 2018 <ul style="list-style-type: none">▪ B.Tech, Computer Science and Engineering. CGPA : 3.56/4
SKILLS	<ul style="list-style-type: none">▪ Languages: Python, C++, PHP, Java, SQL▪ Technologies/Platforms: Spark, Dask, Kubernetes, Docker, Vagrant, Argo, Airflow, Kafka, Pulsar, Celery, Flink, AWS, GCP, Azure, Snowflake, Cassandra, RocksDB, PrestoDB, KyotoDB, Redis, Django.
WORK EXPERIENCE	Redhat , Data Engineering Intern, Internal Data-Hub team May 2020 - Present <ul style="list-style-type: none">• Re-partitioning the schema of SOS reports to make data accessible.• Building a data browsing platform to be used by AI and ML teams w/o any hidden technical debts, using Spark, JupyterHub, Argo, Kubernetes, S3, and, Ceph.• Built Argo workflows for AI and ML engineers to deploy their notebooks directly without any hidden technical debt such as configuration management, Spark OOM issues, etc.• Reduced S3 object count of all data by more than 50 percent, removed the Ceph's limit on object count. Boston University , Research Associate (Software Engineering) Sep 2019 - May 2020 <ul style="list-style-type: none">• With Dr Eric, I am working on making UML diagrams scalable and reliable for large codebases.• Got selected in MIT-ICORPS Fusion program to commercialize the research. Atlan , Data Engineer May 2018 - Jul 2019 <ul style="list-style-type: none">• 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.• Created 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 for 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.• Built a micro-service with Event Sourcing mechanism for pricing in Collect using Kafka, Python3, Docker. Wingify , SDE Intern Dec 2017 - Mar 2018 <ul style="list-style-type: none">• Wingify is a B2B software product company with clients like ebay, Disney, AMD, etc.• It's product is VWO which is an experience optimization platform that improves key business metrics by empowering clients to easily discover insights, test ideas, and improve engagement.• As an intern, I worked with Head of Engg, Ankit Jain, to build a micro-service which parses textual inputs into Domain Specific Language trees and JavaScript code.• APIs of this microservice scaled query processing of the product by 60%.• Stack: PHP, MySQL, CICD, Docker, Vagrant, Blackbox Testing, Unit testing, JMeter Other Internships <ul style="list-style-type: none">• Commutatus, LeagueSX, University of Manchester, University of Liverpool
OPEN SOURCE	<ul style="list-style-type: none">▪ Profiling RocksDB-Apache Flink<ul style="list-style-type: none">• Currently working with Dr Vasia Kalavri (Prime Member Contributor of Apache Flink) and Dr John Liagouris to determine overhead caused by state-ful operations in Flink streaming engine.▪ ZCash Service Status Dashboard<ul style="list-style-type: none">• Built a health-check service status dashboard to monitor the core ZCash blockchain, crypto exchanges, blockchain explorers and ZCash communities and forums.▪ Other projects
HACKATHONS	Medhacks : Won the verbal mention. Hackinout