

Aviral Srivastava

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EDUCATION	Boston University , Boston, MA. Sep 2019 - Dec 2020 <ul style="list-style-type: none">▪ MS(Thesis), Computer Science. 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">▪ Python, PHP, C++, Spark, SQL, Dask, Kubernetes, Docker, Vagrant, Apache:{Airflow,Kafka,Pulsar}, Celery, AWS & GCP (Data&DevOps), Cassandra, RocksDB, PrestoDB, KyotoDB, Redis, Django.
WORK EXPERIENCE	Boston University Research Associate Sep 2019 - Present <ul style="list-style-type: none">• Working on RUMML: Reliable UML diagrams at scale with Dr Eric Braude.• Stack: Python, Java and Python codebases, UML diagrams, large data file handling. Atlan Data Engineer Jul 2018 - Jul 2019 <ul style="list-style-type: none">• Built and deployed on-premise visualisation projects. Scale > 1Billion rows per project per day.• Built Data Repository: Version Control for Data to enable data scientists and ML engineers scale their experimentation by 30%.• "Pallet Core": built over Airflow to automate creation and maintenance of ETL pipelines in order to help Data teams manage their daily workflows.• Built a Serverless Data Processing platform. Enabled ML engineers & Data Scientists to integrate multiple sources, sinks and transformations of data w/o any code & development. Reduced computation cost by more than 20%, improved efficiency by more than 40%.• Built Serverless Jupyter Notebooks platform for collaboration of code and analytical data on file-systems, servers and cloud.• Stack: Python, C++, Apache Airflow, Apache Spark, PrestoDB, Kyoto DB, RocksDB,Cassandra, Apache Kafka, Docker, AWS(S3, Glue, Redshift), Debian Packaging
ENTR EXPERIENCE	Bubble Co-founder, CTO Apr 2017 - Apr 2018 <ul style="list-style-type: none">• Audience Engagement tools which enable digital media platforms to integrate social media reactions with video or textual content.• Got featured on IBM's developer blog and selected in YC Startup School with Mentorship track.
INTERNSHIPS	Atlan Data Engineering Intern May 2018 - Jun 2018 <ul style="list-style-type: none">• Built Woodward: A micro-service with Event Sourcing mechanism for pricing in Collect Wingify SDE Intern Dec 2017 - Mar 2018 <ul style="list-style-type: none">• Built a micro-service to parse textual inputs into DSL trees and JS Code. Used in VWO.• APIs of this microservice scaled query processing of the product by 60 percent.
RESEARCH EXPERIENCE	School of Computing Science , University of Manchester Sep 2017 - Aug 2018 <ul style="list-style-type: none">▪ Data Science Research Intern.• Developed a Neural Mass Computational Framework to Study Synaptic Mechanisms.• Open-sourced the outcome: EEG Simulator tool Data Science Lab, Computer Science , University of Liverpool May 2017 - Aug 2017 <ul style="list-style-type: none">▪ Data Science Research Intern.• Worked on Mapper algorithm.• Improved the visualisation (20 percent) by generating intermediate steps of processing cloud functions viz. Gauss Density, kNN, etc.
PUBLICATIONS	<ul style="list-style-type: none">▪ A S/W R E Technique for IoT Based Healthcare Applications Jan 2018
PROJECTS	<ul style="list-style-type: none">▪ ZCash Service Status Dashboard<ul style="list-style-type: none">• A health-check monitoring dashboard for ZCash External Services.• Received 3.5k USD grants for this project.▪ EEG Simulator: tool to simulate EEG readings of brain.▪ Self Driving Remote Control Car: To replace humans in mundane tasks of factories.▪ Footfall Tracker: To reduce food waste by predicting the number of students in campus dining.
VOLUNTEER WORK	<ul style="list-style-type: none">▪ Love Heals Cancer: Social Media Marketing, On-ground report verification.