Aviral Srivastava

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EDUCATION

Boston University, Boston, MA. **Sep 2019 - Dec 2020**
- MS(Thesis), Computer Science.

Vellore Institute of Technology, Chennai, India. **Jul 2014 - May 2018**
- B.Tech, Computer Science and Engineering. CGPA : 3.56/4

SKILLS

- 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**
- Working on RUML: Reliable UML diagrams at scale with Dr Eric Braude.
- Stack: Python, Java and Python codebases, UML diagrams, large data file handling.

Atlan | Software Development Engineer **Jul 2018 - Jul 2019**
- 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**
- 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**
- Built Woodward: A micro-service with Event Sourcing mechanism for pricing in Collect

Wingify | SDE Intern **Dec 2017 - Mar 2018**
- 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**
- 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**
- 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

- A S/W R E Technique for IoT Based Healthcare Applications **Jan 2018**

PROJECTS

- ZCash Service Status Dashboard
  - 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

- **Love Heals Cancer:** Social Media Marketing, On-ground report verification.