Aviral Srivastava

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EDUCATION

Boston University, Boston, MA.   Sep 2019 - Apr 2021 (Expected)
- MS, Computer Science. CGPA : 3.8/4

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

SKILLS

- **Languages**: Python, C++, PHP, Java, SQL
- **Technologies/Platforms**: Spark, Dask, Kubernetes, Docker, Vagrant, Airflow, Kafka, Pulsar, Celery, AWS, GCP, Azure, Snowflake, Cassandra, RocksDB, PrestoDB, KyotoDB, Redis, Django.

WORK EXPERIENCE

Boston University, Research Associate (Software Engineering)   Sep 2019 - Present
- With Dr Eric, I am working on making UML diagrams scalable and reliable using complex codebases.
- Stack: **Python3, Java, AST, OOP Design and Analysis**

Atlan, SDE(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**.
- 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
- 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%**.
- Received the full time employment offer based on my performance during internship.
- Stack: **PHP, MySQL, CICD, Docker, Vagrant, Blackbox Testing, Unit testing, JMeter**

ENTR EXPERIENCE

Centify | Co-founder, CTO   Apr 2017 - Apr 2018
- Centify was an audience Engagement tool which enabled digital media platforms to integrate social media reactions with video or textual content. We were **selected in YC School with mentorship track**, featured in IBM.

OPEN SOURCE

- ZCash Service Status Dashboard
  - Zcash is a crypto-currency aimed at using cryptography to provide enhanced privacy for its users compared to other crypto-currencies like Bitcoin.
  - Built a health-check service status dashboard to monitor the core ZCash blockchain, crypto exchanges, blockchain explorers and ZCash communities and forums.
- EEG Simulator
  - Developed the first tool to simulate EEG readings using Kinetic LGN model with Dr Basab. Scaled the experimental analysis by more than **50%**.
- Self Driving Remote Control Bot
  - A collaborative autonomous driving bot to scale manual work in small-scaled factories like University dining, coach factories, etc.
- Footfall Tracker
  - Identified eating patterns of students as per the given menu to significantly reduce food waste by predicting the number of students in campus dining.

HACKATHONS

- **Medhacks**: Developed brain's state(fear, fright, flight) simulation. Won the verbal mention.
- **Hackinout**: Developed Chemical Component Detector in brain's thalamus.