Keval Khara

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TECHNICAL SKILLS

- **Languages**: Python, SQL, Scala, Go, Javascript, Java, Bash, C#, C++, HTML5, PHP, CSS3
- **Platforms**: AWS (EMR, Lambda, Redshift, Athena, API Gateway, RDS, Glue, ElastiCache, CloudFront, CloudWatch, KMS, EC2, S3), Spark, Hadoop, Hive, Flask, Jira, Jenkins, Docker, Django, React, Kubernetes, MySQL, MATLAB

EXPERIENCE

Software Engineer – Data Science, **Aberdeen Group**, USA (website) **Feb'19 - Present**

- **Liaised** with clients on pre-sales and post-sales meetings to propose customized business solutions which involved discovering opportunities with **big data insights** and **presenting analyses** to Senior Executives
- **Innovated** and developed a **Lookalike Modeling** system to uncover promising leads for sales and marketing, using AWS EMR, Athena, Lambda and API Gateway
- Developed an **unsupervised machine learning** model for **big data fraud detection** leveraging EMR batch processing, which led to an increased accuracy in products and helped save on processing and storage costs by 14%
- Designed and developed a **Device Identity Graph** using AWS EMR and Athena, to significantly increase the resolution of ISP devices up to 80%, becoming the **best selling point** during the COVID-19 pandemic
- Lead the migration of web analytics trackers from Cloudfront collectors to Scala collectors to enable **real-time tracking and analysis** of user activities, building the pipeline using AWS Kinesis
- Architected and developed a **Client Management system** to streamline client on-boarding and management process, using AWS EC2 for hosting a Flask web app, API Gateway and Lambda for functionality, and RDS for storage

Software Engineering Intern, **Viasat Inc.,** Seattle, USA **June'18 - Aug'18**

- Streamlined the development and deployment of 12-factor apps at Viasat by building a next-generation orchestration platform that requires minimal operational overload
- Developed the **REST API** and **CLI** for the platform. Modeled the PostgreSQL database and used Object-Relational Mapping for Golang to reduce development time and achieve a richer query capability

Data Science Engineer, **BU Spark**, Boston, USA **Jan'18 - May'18**

- Increased the revenue by 32% by developing a **Recommender System** for a Social Interior Design Company called Printz, and revamped their E-commerce platform for better customer retention
- Collaborated with WGBH to lead an investigation into the distribution of government contracts among the minority-owned businesses in Massachusetts. **Modeled ETL** and used **clustering** techniques in the process. Read article here

Research Assistant, **Boston University**, Boston, USA **Dec'17 - May'18**

- Developed an Autonomous Race Car with an objective to train a model that can provide coarse grained localization without using GPS, while also maintaining a high level of automotive functional safety

EDUCATION

Master of Science, Computer Engineering **Sept'17 - Jan'19**
Boston University, Boston, USA **GPA**: 3.71/4.0

- **Coursework**: Data Science, Machine Learning, Algorithms, Advanced Data Structures, Cloud Computing, Artificial Intelligence, Software Architecture, Product Development, Enterprise Client-Server Software

PROJECTS

Full Stack Data Science **July'18**

- Built a full stack data science web application using Django and PostgreSQL, to **increase customer engagement** by prioritizing and categorizing customer reviews in real-time, implementing Doc2Vec algorithm and an SVM classifier

Big Data Containers **Feb'18 - Apr'18**

- Built an Open Service Broker for the Dataverse API on the Massachusetts Open Cloud (MOC) to enable Big Data Analytics applications on OpenShift environment to consume data from Dataverse
- Collaborated with mentors from Red Hat, MOC and the Dataverse team at Harvard University

Network Visualization for Big Data **Feb'18**

- Built a web application using JavaScript, HTML5 and CSS for better visualizing, managing and analyzing a complex network of nodes within a large dataset. Won 2nd Place at MIT CAVE Lab Hackathon 2018