

# Keval Khara

Wilton, CT 06897 || +1(857)-800-5579 || kevalkhara95@gmail.com

Website: <http://www.kevalkhara.org> || LinkedIn: <https://www.linkedin.com/in/kevalkhara> || GitHub: <https://github.com/kev5>

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## 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
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## EXPERIENCE

Software Engineer, **Aberdeen Group**, Wilton, USA ([website](#))

Feb'19 - Present

- **Innovated** and developed a **Lookalike Modeling** system to uncover promising opportunities 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

Software Development 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
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## 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 2<sup>nd</sup> Place at MIT CAVE Lab Hackathon 2018
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## TECHNICAL SKILLS

- **Languages:** Python, SQL, Go, Scala, 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