

# Keval Khara

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## TECHNICAL SKILLS

- **Languages:** Python, SQL, Scala, Go, Javascript, Java, Bash, C#, C++, HTML5, PHP, CSS3
  - **Platforms:** Amazon Web Services, Spark, Hadoop, Hive, Tableau, Power BI, Flask, MySQL, PostgreSQL, Docker, Django, Kubernetes, Jira, Jenkins, MATLAB
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## EXPERIENCE

Software Engineer - Product Management, **Aberdeen Group**, Wilton, CT

Feb'19 - Present

- **Liaising** with clients on pre-sales and post-sales meetings to propose customized business solutions by discovering opportunities with **big data insights** and **presenting analyses** to Senior Executives
- **Leading** the development and data operations of Aberdeen OnDemand **SaaS platform** that processes over **5 TB** of data to provide intent-driven marketing and sales leads to **200+ clients**, generating up to **40x ROI**
- **Increased the resolution** of ISP devices up to **80%**, by designing and developing a **Device Identity Graph** that became our **best selling point** during the COVID-19 pandemic
- **Uncovered promising leads** for sales and marketing by **innovating** a **Lookalike Model** employing **NLP** for topic modeling, and AWS EMR, Athena, Lambda, API Gateway and S3 for the **ETL pipeline**
- **Improved accuracy** across all our products and helped save on **processing and storage costs** by **21%** by designing and developing a **Neural Network** model for **big data fraud detection**
- Enabled **real-time tracking and analysis** of user activities, by leading the design and development of web analytics trackers using Scala collectors, building the **ETL pipeline** using AWS Kinesis, EMR and S3
- Overhauled the **client on-boarding** and management process by architecting and developing a **Client Management system**, using AWS EC2 for hosting a Flask app, API Gateway and Lambda for functionality, RDS and S3 for storage

Software Engineering Intern, **Viasat Inc.**, Seattle, WA

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, MA

Jan'18 - May'18

- **Increased the revenue** by **28%** by developing a **Recommender System** for a Social Interior Design Company called **Printz**, and revamped their E-commerce platform for better customer retention
  - **Led an investigation** into the distribution of government contracts among the minority-owned businesses in Massachusetts, collaborating with **WGBH**. **Modeled** the **ETL pipeline** and used **clustering** techniques in the process
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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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## PROJECTS

NextGen Customer Experience

July'18

- **Increased customer engagement** by **40%** by prioritizing and categorizing customer reviews in real-time, powered by a web application using Django and PostgreSQL, and leveraging Doc2Vec algorithm and an SVM classifier

Network Visualization for Big Data

Feb'18

- Built a **web application** using JavaScript, HTML5 and CSS for better **visualizing, managing and analyzing** a complex supply chain network with thousands of nodes. Won **2<sup>nd</sup> Place** at MIT Hackathon 2018
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## INTERESTS

Pro Bono Consulting, Mentoring, Investing, Macroeconomics, Trading, FC Barcelona (Soccer), Reading, Traveling