

# Adarsh Hegde

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## Education

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<b>The University of Texas at Dallas</b> , Richardson, Texas	Expected
Master of Science in Computer Science	May 2021

<b>Sri Jayachamarajendra College of Engineering</b> , Mysore, India	May 2016
Bachelor of Information Science and Engineering	GPA 8.79/10

## Computer Skills

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Languages: Java, C, Perl script, HTML, JavaScript

Databases: PostgreSQL, Vertica, MySQL

Framework and Tools: Spring Boot, Maven, Git, Apache Kafka, Kubernetes, Docker, Ratpack

Big Data Technologies: Apache Flink

## Work Experience

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<b>Software Engineer</b> , Micro Focus (Formerly known as HPE), Bangalore, India	Aug'16 – Jun'19
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- Developed scalable data ingestion microservice to handle a high volume of data from different sources.
- Implemented analytical services such as moving average and central thresholding which enabled clients to maintain high business service levels by quickly resolving critical product issues.
- Designed an algorithm to store and retrieve hierarchical topology data efficiently in a columnar database like Vertica.
- Implemented data retention policies to reduce the cost of storage space while retaining helpful information.
- Improved query performance by 30% by running the query plan, defining optimal partitioning and segmentation.
- Developed containerized microservices for the unified big data platform called Intelligent Data Lake.
- Contributed to CI/CD process (Continuous integration, Continuous Delivery and Deployment) in a scaled agile environment.

## Academic Projects

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<b>Automated Water Flow Control System (IoT)</b>	Spring 2016
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- Integrated different sensors with Raspberry Pi to control water flow and implemented an algorithm to find flow rates, amount of water dispensed.
- Developed an android application to visualize the different metrics of water usage.

<b>Data Visualization using Classification and Clustering Algorithms</b>	Spring 2015
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- Implemented Principal Component Analysis (PCA) to reduce the dimensions of iris and pen digit data set. Applied K nearest neighbor, K means algorithm to classify and cluster the data.

## Activities

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<b>Micro Focus Hackfest</b> , Winner	Aug'18
<b>Indian Student Association (ISA)</b> , Member	Aug'19 – Present