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Job Abroad Engage Data-Engineer Program

Harsha GN Achar

Month1 : Big Data Fundamentals

- Learn the basics of Big-Data concepts such as Hadoop, MapReduce, Spark, and distributed computing.
- Understand the architecture and ecosystem of Big-Data technologies.
- Get familiarized with the different types of storage systems used in Big Data.

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By Harsha

Month 1: Data Processing

01 Dive deeper into the data processing aspects of Big Data technologies.

02 Understand how to optimize data processing for performance, and become familiar with techniques such as data partitioning, caching, and data compression.

03 Explore the role of data serialization frameworks such as Avro, Thrift, and Protocol Buffers.

Month 2: Data Storage

1	2	3
Learn about different storage formats for Big Data, including Apache Parquet, Apache ORC, and Apache Avro.	Understand the role of distributed file systems such as HDFS, Amazon S3, and Azure Blob Storage.	Explore techniques for optimizing storage performance, including compression, encryption, and indexing.

BY Harsha

Month 3: Data Integration and Pipelines

1. Explore techniques for ingesting data from various sources such as databases, APIs, and log files.

2. Understand the role of ETL (extract, transform, load) pipelines in Big Data processing and learn how to optimize their performance.

3. Learn about stream processing technologies such as Apache Kafka and Apache Beam.

Month 4 : Performance Tuning and Optimization

Step 1

•Focus on optimizing Big Data performance by understanding the principles of resource allocation, load balancing, and fault tolerance.

Step 2

•Learn about techniques for profiling, monitoring, and debugging Big Data applications.

Step 3

•Explore performance tuning techniques such as JVM tuning, garbage collection tuning, and cluster tuning.

Step 4

•Bare metal or cloud hardware architecture and tuning

Month 4: Advanced Topics & Real-World Use Cases

By Harsha

- Get familiarized with advanced topics in Big Data, such as machine learning, graph processing, and real-time analytics.
- Explore real-world use cases of Big Data applications, including fraud detection, recommendation systems, and sentiment analysis.
- Learn about best practices for deploying and managing Big Data applications in production environments.
- Learn about industry standard Big Data benchmarks TPC-DS, TPCx-BB and TPCx-AI, NoSQL database: Cassandra and eyeball at other NoSQL databases, Big-Data Performance benchmarking.
- Data Vault, Data Loading Architecture and Big-Data Integration-Agile Metholdology.
- ETL Tools, Data warehouse Architecture, Dimensional Modeling (SCD) and Optimizing Data warehouse.
- One GCP Big Data Analytics PySpark Service deployment project (end to end)

Personalized Career Coaching (Bonus) Data-Engineers

- Current Career Domain Mapping [Systematic Research strategy: SRS]
- Abroad Job Market Research and Opportunities Mapping [SRS]
- Resume and LinkedIn rewriting – Personal Branding
- Job Hunting Abroad using chat-GPT and AI tools to interact with recruiters
- 4 Live Mock interviews and feedback
- 2 months of Accountability calls of 1 hour each (weekly 1)
- One, 5-hours hands-on live Industry Big Data Analytics project and curating to current Data Engineering domain
- Time Management and holistic (yoga) growth mindset sessions (6am to 7 am) 21 days
- Lifetime access to community group

By Harsha

Post Job Abroad Engage Data-Engineer Program

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Post Abroad Engage Data-Engineer Job program, Salary Expected – $54850 to $1,21890 per annum [Equivalent to 7-10+ years of experience]

Companies job offers Expected Google, Broadcom, Qualcomm, AMD, IBM, HPE, DELL and UK/European companies

Expected roles: Data analyst, Big Data Engineer, Business Intelligence Analyst, Data Architect, Data Warehouse Analyst, Data Visualization Specialist, Chief Data Officer

Thank you

- Harsha GN Achar