

MOHAMED ALLA PITCHAI

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PROFILE

- **Engineering Manager and hands-on technologist** with 15+ years of experience and a proven record of leading cross-functional teams to design and scale enterprise data platforms by translating business needs into functional and non-functional requirements. Delivered scalable, reliable and secured data pipelines through automation, observability, and GDPR-compliant architectures. Skilled in data architecture, cloud-native pipelines, real-time streaming, ML workflows, and enterprise-wide data operations, with a track record of setting technical vision, influencing strategy, and delivering secure, scalable, and future-ready solutions.
- **Experienced in cross-collaborating with other teams** to identify pain points and translate them into self-service, reliable solutions; Proficient in data modeling, database design, big data architectures, and stream processing in AWS cloud; experienced in building data warehouses, data lakes, and modern orchestration frameworks using Infrastructure as Code, CI/CD, and containerization.
- **Experienced with data governance strategies and architecture patterns** such as MDM, CDC and Medallion and proficient in data engineering tools including Python, Kafka, Spark, Scala, Airflow, Snowflake, Redshift, Delta Lake, Terraform, Jenkins, Docker, Kubernetes, dbt, and Fivetran. Adept at integrating monitoring, SLOs, data quality, and governance frameworks to ensure reliability, scalability, and regulatory alignment.
- **Strong people leader** with a collaborative and forward-looking approach, empowering teams through context and delegation, coaching through complex initiatives, and driving delivery excellence using Agile methodologies to foster alignment, innovation, and impact.

PROFESSIONAL EXPERIENCE

DIMENSIONAL FUND ADVISORS

Manager

Nov 2022 – Mar 2025

- **Led a team of tech leads and senior data engineers**, fostering a culture of mentorship, innovation, and delivery excellence; established clear OKRs, KPIs, and growth paths to build high-performing teams.
- **Developed and executed enterprise data engineering strategy** for the Investment and Data Analytics department, aligning with organizational goals and ensuring scalability, governance, and compliance (GDPR, CCPA, DORA).
- **Directed data platform modernization initiative**, migrating from vendor-locked systems to Snowflake, Airflow, and dbt, reducing platform costs by 40% while improving performance and reliability.
- **Partnered cross-functionally with product, analytics, and data science leaders** to define requirements and deliver data solutions that improved decision-making and member experience.
- Introduced **observability, monitoring, and data quality frameworks** (ELK stack, Great Expectations, DataHub), ensuring trust, integrity, and operational excellence in enterprise-wide data products.

CATER PILLAR INC

Engineering Manager (contract)

May 2022 – Oct 2022

- **Led the data engineering team** of Caterpillar and oversaw the design and development of workflow to ingest, transform and load telematics data from Caterpillar machines using technologies such as Restful APIs, Kafka, Apache Spark in Scala, Kubernetes and AWS.
- **Partnered with product owners** and defined roadmap.
- **Created, managed and communicated plans and roadmaps** for the data engineering team through meetings, agile ceremonies and tools such as Jira and Confluence

- **Advocated the importance of documentation** and ensure standards, best practices, and engineering artifacts are properly documented for development and maintenance activities
- **Led the project** of automating database schema migration utility successfully using Grate resulting into the reduction of deployment time of DB schema changes from 3 to 5 business days to 1 hour

CAPITAL ONE

Data Engineering Manager

Jan 2014 – Jan 2022

- **Managed the data engineering team** supporting corporate strategy and financial data pipelines.
- **Oversaw ETL Pipeline design and development** to extract and process enterprise survey data, integrating with Medallia using Apache Spark (Scala), Kafka, Snowflake and AWS cloud technologies (EMR, S3, Cloud Formation, Lambda, Cloud Watch)
- **Led the effort** of writing a Spark job to mask the data in data lake for GDPR compliance.
- **Contributed to architecture and code reviews**, ensuring timely code merges and successful deployments, enforcing and improving CI/CD methodologies.
- **Advocating scrum teams** with story assignments by assessing the task, technology and skills of team members and participate and oversee knowledge sharing and Agile ceremonies.
- **Conducted a 3-day workshop** on handling big data using Apache Spark and Scala for the teams under shared technology division in Capital One.
- **Partnered with business leaders** to understand strategic goals and translate them into data engineering priorities.
- **Establish SLAs**, documentation practices, and monitoring to ensure reliability and trust in delivered data

EARLIER CAREER (PRIOR TO 2014 – DETAILS AVAILABLE UPON REQUEST):

- Engineering Tech Lead / Senior Engineer in Consulting, Financial and Retail Firms
- Designed, developed and delivered data migration solutions using Java and TeamSite Workflow Engine
- Built Microservices using Java and Spring Boot
- Built Portal for Circuit City Contact Center using tools and technologies like Java, JSR-168 portlets, Interwoven TeamSite and Endeca Search engine

EDUCATION

Fuqua School of Business, Duke University

- Master of Business Administration (MBA)

Dept of Computer Science, Madurai Kamaraj University

- Master of Computer Applications (MCA)