**MATHEW JERRY MELETH**

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# Cloud & Data Engineer with 3 years of experience and expertise in AWS (Lambda, Step Functions, S3, Glue, Athena), Azure (Databricks, Data Factory, Data Lake, DevOps), and distributed data architectures. Proven track record in building scalable ETL pipelines, orchestrating serverless workflows, migrating CI/CD pipelines, and transforming multi-terabyte datasets into actionable insights. Recognized for accelerating deployment efficiency, automating workflows, and delivering measurable business impact.

# **EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**University of Washington, Information School Seattle, WA**

*Master of Science in Information Management – Current GPA: 4.0/4.0* June 2026

**Honors:** iSchool Scholar (Merit & Contributions to the School)

**Vellore Institute Of Technology, School of Information Technology & Engineering Vellore, India**

*Bachelor Of Technology in Information Technology – Overall GPA: 8.71/10* June 2021

# **TECHNICAL SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cloud & Big Data Platforms:** AWS (Step Functions, Lambda, S3, Athena, Glue ETL), Azure (Databricks, Data Factory, Data Lake, DevOps), Hadoop, PySpark, Spark SQL  
**Databases & ETL:** SQL Server, MySQL, PostgreSQL, MongoDB, Cassandra, ETL pipeline automation  
**Programming & Visualization Tools:** Python, Java, SQL, JavaScript, Power BI, Tableau, Git, Jupyter Notebooks, Postman  
**Methodologies:** Agile, Scrum, CI/CD, DevOps  
**Core Competencies:** Data Pipeline Design, ETL Automation, Data Warehousing, Serverless Architecture, Distributed Data Processing, Cloud Infrastructure, Data Modeling, Visualization

# **EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

## Cloud & Data Engineering Intern, Rocket Mortgage June 2025 – September 2025

* Designed and deployed **AWS serverless pipelines** (Step Functions, Lambda, Glue ETL, Athena, S3) processing **multi-terabyte datasets**, reducing data ingestion time by 35%.
* Migrated **20+ CI/CD pipelines** from CircleCI to GitHub Actions with HAL integration, standardizing workflows and improving deployment efficiency by 40%.
* Engineered automated logging, monitoring, and error-handling frameworks, improving pipeline reliability and operational visibility by 25%.
* Optimized ETL and data storage architectures for high-volume workloads, ensuring scalable, fault-tolerant data operations for enterprise applications.

## Data Engineer, Mu Sigma August 2021 – July 2024

* Architected **end-to-end big data pipelines** for European retail client using **PySpark** and **Azure** Data Factory, accelerating data ingestion and processing speed by 40%.
* Integrated external sales datasets with internal inventory, uncovering **$250k in previously unrecognized revenue losses** due to supply chain inefficiencies.
* Developed **geospatial route optimization algorithms** using Google Maps API, reducing travel time by 15 hours/month per team member.
* Automated raw material cost analysis via Azure Databricks and Data Lake, reducing processing time from **one month to two days**, while maintaining 100% compliance.
* Implemented CI/CD workflows in Azure DevOps, improving pipeline deployment efficiency by 40% and ensuring seamless integration.
* Created executive dashboards in Power BI for data-driven decision-making, covering performance, inventory, and operational trends.

## Summer Intern, Adobe May 2019 – June 2019

* Automated customer data ingestion pipelines using Python, reducing manual effort by 20%.
* Benchmarked CRMs (Salesforce & CleverTap), providing actionable insights to improve feature adoption among 100+ beta testers.
* Contributed to campaign management integration with advanced CRM workflows, improving product-market alignment.

# **ACADEMIC PROJECTS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Perfect Vision – Store Auditing Application (Mu Sigma)**

* Engineered a data-driven **store auditing mobile app solution** using React Native, Azure, Image Recognition (OpenCV, Yolo v5), Pandas (Python), Django & REST API, enabling real-time audit tracking with 25% faster reporting
* Innovated geospatial data processing pipelines to optimize store visit planning, reducing inefficiencies by 30%
* **Automated analytics dashboards** to transform audit data into actionable insights, driving compliance and enhancing operational decision-making with near-instant processing of field data
* **Scaled and live globally across 10+ countries** for a **Fortune 100 CPG company** – used daily by 1000+ sales representatives.

**YouTube Data Analysis using Apache Hadoop and MapReduce Framework**

* Developed an innovative solution for processing YouTube analytics through MapReduce and Hive on Hadoop; implemented efficient querying methods that improved data retrieval speeds by more than 30%.
* Crafted and executed advanced HiveQL queries to comprehensively assess user engagement patterns and video metadata, enabling a 40% improvement in targeted content strategies for enhanced viewer retention.
* Established end-to-end workflows harnessing the power of HDFS for effective management and rapid querying involving up to five million records weekly, empowering real-time responses crucial for maintaining competitive edge in digital content evaluation.

**Mask Detection & Face Recognition System**

* Devised an advanced **machine learning model** using both **TensorFlow's Keras API** and traditional computer vision techniques with **OpenCV**; trained it on over 10,000 images for reliable accuracy exceeding industry standards.
* Integrated Twilio API to facilitate seamless automated SMS alerts for critical notifications, enhancing communication processes and covering 100% of user cases during high-traffic events without any downtime or failures.

# **KEY COMPETENCIES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Cloud & Big Data Analytics:** Hands-on expertise with AWS (Lambda, Step Functions, S3, Glue, Athena), Azure (Databricks, Data Factory, Data Lake), and Hadoop ecosystems
* **Data Visualization & BI Tools:** Expert in designing interactive dashboards and reports using Power BI and Tableau to drive data-driven business decisions.
* **Data Modeling & Warehousing:** Skilled in creating robust data models, star/snowflake schemas, and managing cloud-based data warehouses for efficient storage and retrieval.
* **Advanced Analytics & Reporting:** Ability to convert complex datasets into actionable insights using visualization, statistical analysis, and KPI tracking.
* **ETL & Data Pipeline Development:** Experience building scalable ETL pipelines to ingest, transform, and store large datasets reliably.
* **Advanced Analytics & Reporting:** Ability to convert complex datasets into actionable insights using visualization, statistical analysis, and KPI tracking.
* **Cross-Functional Collaboration:** Experienced in working with engineers, analysts, and business stakeholders to deliver insights and reporting solutions efficiently.

# **AWARDS & RECOGNITION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **iSchool Scholar** – University of Washington, for merit and contributions to the school
* **Graduate Teaching Assistant** for ‘Organization Of Information And Resources’, supporting course delivery, mentoring students, and enhancing learning outcomes through effective communication and collaboration.
* **International Relations Leader** for AIESEC**: Built strategic partnerships across five countries**, securing 200+ internship placements and advancing AIESEC's **global leadership objectives**; Developed a long-term strategy for **international partnerships**, increasing student placements in technology internships.
* 3x **Star Performer Of The Team** at **Mu Sigma -** for exemplary performance, stakeholder satisfaction & quality deliverables.
* Certificate of Excellence– for successfully **conducting** two **inter-college** **Hackathons** called ARCS at **IEEE-Computer Society**