

# MUHAMMED FARIS

Senior Data Engineer

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## SUMMARY

Data Engineer with 5+ years of experience building scalable ETL pipelines, data warehouses, and lakehouse architectures on Databricks and AWS. Proficient in PySpark, Airflow, and Python for data processing and orchestration. Experienced in designing data models, optimizing SQL queries, and ensuring data reliability through automation and CI/CD workflows

## SKILLS

Languages Language & Framework:	Python, Pyspark, FastAPI, Flask, Playwright
Databases:	PostgreSQL, MySQL, Redis, Delta Table (Databricks)
Cloud Services:	Amazon Web Services, Databricks
Orchestration and Messaging:	Airflow, Linux Cron, Kafka, RabbitMQ
DevOps Tools:	Linux, Docker, GIT, Github, AWS SAM
Languages:	English, Malayalam

## WORK EXPERIENCE

<b>Senior Data Engineer, Chi-Square labs</b>	Nov 2021 - Present
<ul style="list-style-type: none"><li>Designed and developed an Enterprise <b>Data Warehouse</b> (EDW) on <b>Databricks</b> using <b>PySpark</b>, implementing <b>star schema</b> with fact and dimension tables to support business intelligence and analytics.</li><li>Built a unified <b>Lakehouse architecture</b> on Databricks, integrating structured and unstructured data stored in <b>AWS S3 Data Lake</b> for analytics and ML workloads.</li><li>Experienced in maintaining and optimizing <b>ETL pipelines</b> to ensure seamless data flow and transformation across multiple systems.</li><li>Proficient in using <b>Python</b>, <b>Airflow</b>, <b>Docker</b>, and <b>PostgreSQL</b> for efficient data processing, orchestration, and storage.</li><li>Set up monitoring and logging for ETL pipelines using <b>AWS CloudWatch</b> and Airflow <b>task logs</b> to proactively detect failures and optimize performance</li><li>Skilled in extracting and transforming structured and unstructured data using Python libraries, including <b>BeautifulSoup</b>, <b>Playwright</b>, <b>PDFMiner</b>, <b>pdfplumber</b>, <b>Camelot</b>, <b>JSON</b>, <b>Pandas</b>, and <b>ocrmypdf</b>.</li><li>Hands-on experience in deploying and managing data solutions using AWS services such as <b>S3</b>, <b>Lambda</b>, <b>ECS</b>, and <b>EC2</b>.</li></ul>	

- Experienced in using **Databricks** for **big data processing**, collaborative analytics, and notebook-based development.
  - Developed an **ML-based chatbot** leveraging **spaCy** and a rule-based NLP approach, integrated with WhatsApp using **Twilio** and **FastAPI** for real-time communication.
  - Skilled in **troubleshooting** and resolving issues related to data processing, ensuring minimal disruption to business operations, and maintaining high data availability.
  - Implemented and managed inter-service communication using **FastAPI**, **Kafka**, and **RabbitMQ** to ensure reliable, **real-time data exchange** across distributed systems.
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**Software Engineer, Xantron E-Solutions**

**Jul 2020 - Oct 2021**

- Collaborated with a team focused on developing applications for the **education domain**.
  - Designed and implemented scalable **RESTful APIs** using **Flask**, enhancing backend efficiency and reliability.
  - Utilized a tech stack including **Python**, **Flask**, and **MySQL** for robust backend development.
  - Deployed and maintained web applications on **AWS EC2** instances, leveraging **Celery** for **asynchronous task execution** and improved system performance through parallel processing.
  - Worked closely with front-end teams to design and refine APIs, ensuring seamless system integration.
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## ACHIEVEMENTS AND CERTIFICATIONS

- **Databricks Fundamentals Accreditation [E-VP9791]**
  - Certified in **HIPAA** (Health Insurance Portability and Accountability Act) compliance.
  - Diagnosed and rectified a critical **memory leak** within the pdfplumber Python library by using memory profilers; enhanced document processing speeds by 40% and improved overall system stability.
  - Automated the process of extracting data from medical records, tripling processing speed and freeing up two team members for key compliance activities.
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## EDUCATION

**Bachelor of Science in Computer Science**

**2017 - 2020**

*University of Calicut*

- Studied programming, database systems, software engineering, web development, and data structures.
- Key Areas: C, Java, PHP, Bash, Android, DBMS, Algorithms, Operating Systems, Computer Networks, and Applied Mathematics.