

# KOLLURU HARSHODAI

Hyderabad, India

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## Experience

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### JP Morgan Chase, Software Engineer 2

August 2025 – Present

Hyderabad

- Designing and developing a scalable, config-driven Usecase specific ReAct-based reasoning Agentic AI Framework (LangGraph + OpenAI) applying SOLID principles to autonomously detect and fix code vulnerabilities across multiple programming languages targeting a 70 % reduction in developer remediation time and 90 % patch validation accuracy upon full deployment.
- Implementing an automated verification and feedback loop integrating AI-generated test cases and enabling interprocedural context understanding via call graphs, CLI regression validation, and human-in-the-loop review, aiming to increase test coverage by 40 to 50% and establish continuous improvement pipelines for reliable, production-grade code fixes.

### Phenom People, Data Engineer 1

July 2023 – August 2025

Hyderabad

- Engineered and optimized near real-time data pipelines integrating Snowflake and Pinot-Trino, achieving query latencies under 3 seconds for a year's Career Site KPIs, enabling faster and more informed decision-making by business stakeholders.
- Implemented and enhanced a Change Data Capture (CDC) pipeline using AWS Glue Apache Iceberg Catalog and AWS Spark EMR to onboard **five Phenom products** into the Analytics Report Builder. This solution enabled real-time insights from source systems by leveraging Iceberg for efficient data storage and processing.
- Built **four pipelines** using Apache Flink and Kafka, incorporating robust exception handling and data validation mechanisms, ensuring stable and reliable data flow within Argo CD-managed Kubernetes clusters.
- Automated synchronization of job information, tenant data, and customer on-boarding using Apache Airflow, Python scripts, and MongoDB, reducing manual effort by **2 hours per week** and minimizing human error in the process.
- Developed **150 low-latency queries** for critical metrics such as job data accuracy, bot analytics, net promoter scores, and talent community KPIs and Career Site metrics supporting over **1100 customers** on the Phenom Analytics Platform.
- Mentored and supported **three junior engineers** in resolving Analytics Platform bugs, reducing customer-reported issues and enhancing overall customer satisfaction on Apache Flink, improving team efficiency and expertise.

### Tiger Analytics, Big Data Engineer

March 2022 – December 2022

Chennai

- Developed a high-performance batch ETL pipeline in AWS using PySpark, reducing execution time to **8 minutes** and automating workflows through Apache Airflow, leading to significant time savings and improved operational efficiency.
- Optimized Spark job performance by implementing a JSON-based configuration file, enhancing readability and maintainability for 30+ records across projects and deployed and executed Spark jobs on an EMR cluster using the Livy REST API

## Technical Skills

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**Programming Languages:** Python, SQL, Java

**Data Engineering Tools:** Apache Iceberg, Apache Spark, PySpark, Apache Kafka, Apache Flink, Apache Pinot, Trino, Snowflake

**Cloud Platforms:** AWS Cloud Ecosystem

**Data Orchestration:** Apache Airflow

## Achievements and Certifications

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- Secured **1st prize** in a PowerPoint Presentation on IoT at Medha 2018, hosted by GIET Engineering College, Rajahmundry.
- Achieved **2nd prize** in Slide Evince about Advances in Heart Attack Detection in NIPUNA 2019 conducted by SRKR Engineering College, Bhimavaram.
- **Nominated** for the Phenomenal CRISP Awards from Analytics Team within the Platform Engineering Department.

## Education

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**Godavari Institute of Engineering and Technology**

July 2018 – April 2022

Bachelor of Technology in Electronics and Communication Engineering

CGPA: 8.28/10