Murli Alva

Software Engineer

Contact

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Programming Skills

- SQL
- Python
- Scala
- PySpark

Data Handling Skills

- Data Analysis
- BigQuery
- PostgreSQL
- Opensearch
- NoSQL
- Data Warehousing

Data Processing

- Apache Airflow
- Spark
- Hadoop
- Real-time data processing

Cloud Platforms

- AWS
- GCP (Google Cloud Platform)
- Azure

Framework & Tools

- Django
- Docker
- Tornado

Soft Skills

- Effective communicator
- Creative thinker
- Customer-focused
- Detail-oriented
- Collaborative team player

Software Engineer with over **3 years of experience** developing products across **marketing**, **video editing**, and **healthcare** domains, utilizing both **conventional technologies** and **AI agents**. Proficient in building solutions on **AWS**, **GCP**, and **Azure**. Skilled in **Python-based API development** and experienced in designing **scalable infrastructure** and **relational/NoSQL databases**. I aim to **deepen my technological skill set** and drive **impactful contributions** that support both **organizational success** and my **long-term career growth**.

Work History

2022-06 - Current

Software Engineer

CIPIO.ai INDIA Pvt. Ltd., Ahmedabad

- Designed and developed **database schemas** and **RESTful APIs** using **Python** (**Django**, **Tornado**), ensuring **high performance**, **scalability**, and code maintainability.
- Engineered and managed **multi-cloud infrastructures** across **AWS**, **Azure**, and **GCP**, handling **VMs**, **batch jobs**, **cloud storage**, and **relational and NoSQL databases** for seamless operations.
- Enhanced **data processing efficiency** by 30% through optimization of **BigQuery** queries and **data pipelines**, driving faster business insights and reporting.
- Worked closely with the **Data Science** team to develop features leveraging **multi-AI agent architecture** and to **productionize machine learning models** with a focus on scalable deployment, **performance optimization**, and robust monitoring.
- Built and optimized real-time **NoSQL solutions** using **OpenSearch** and **GraphQL** to support high-volume querying needs.
- Integrated **third-party services** including **Stripe** (payments), **Gmail** (communication), and **Google Drive** (file management) via secure API implementations.
- Led **CI/CD** deployments using **Jenkins**, ensuring efficient, reliable, and low-downtime delivery of new features to **development** and **production** environments.
- Integrated RESTful APIs with Frontend teams to **boost delivery** and **user experience**.
- Applied **Software Design Patterns** and **Data Structures** principles to improve code quality, resulting in a cleaner, more scalable, and maintainable codebase.

2021-06 - 2022-06

Data Analyst Intern

CIPIO.ai INDIA Pvt. Ltd., Ahmedabad

- Performed **complex data set analysis**, identifying trends and correlations through **advanced statistical techniques**.
- Managed large-scale databases for partner and customer data collection, ensuring accuracy through **meticulous data cleaning and validation**.
- Supported end-users by generating **custom reports** using software and database tools.
- Enhanced CIPIO application and crafted data engineering **pipelines with Airflow**, developed APIs with Tornado, **REST API**, and **SQLAlchemy**, leveraging **GCP services**.

Education

2020-05 - 2022-05	**Master of Technology: Data Science and Analytics**
	Ahmedabad University - Ahmedabad
2016-07 - 2020-08	**Bachelor of Engineering: Computer Engineering**
	Narnarayan Shastri Institute of Technology - Ahmedabad

Projects

- **Churn Prediction Based on Customer Utilization** (Jun 2021 – May 2022)
  Conducted predictive analysis to identify potential customer churn based on usage behavior, focusing on subscribers utilizing virtual workout content at home. Developed and evaluated machine learning models to improve customer retention strategies.
- **NYC Yellow Taxi Fare Prediction** (Jan 2021 – Apr 2021)
  Built a predictive model to estimate taxi fare amounts, including tolls, in New York City using pickup and drop-off location data. Applied data preprocessing and feature engineering to improve model accuracy.
- **Heart Attack Risk Prediction** (Oct 2020 – Dec 2020)
  Implemented machine learning algorithms such as logistic regression and decision trees to assess the risk of heart attacks using medical and lifestyle parameters. Utilized Python libraries like NumPy, Pandas, Matplotlib, and Scikit-learn for data analysis and model development.

Accomplishments

- **2nd Runner Up in Hackathon (Q2 2024)** for innovative AI solutions for enhancing everyday tasks and productivity.
- Winner of **CIPIO Team Excellence Award (Q1 2024)** for exceptional teamwork, dedication, and impactful results towards team's success.
- Recipient of **CIPIO Spot Award (Q2 2023)** for outstanding contributions that make an immediate impact and drive success.
- Winner of **CIPIO Innovation Award (Q4 2022)** for pioneering ideas and creative solutions that drive progress and inspire change.
- **Hackathon finalist**, demonstrating strong problem-solving and technical skills under competitive conditions organized by Gujarat Government.
- **College-level Carrom winner**, showcasing strategic thinking and precision in sports.