Venkata Pavithra Chaganti

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# PROFESSIONAL SUMMARY

Innovative and detail-oriented **Software Engineer** with expertise in **Python, Java, JavaScript, and cloud computing**. Strong background in designing and developing scalable applications, RESTful APIs, and web services. Skilled in **CI/CD, cloud environments, DevOps, and system troubleshooting**. Passionate about optimizing system performance and solving complex problems with efficient solutions. Seeking a **full-time Software Engineer role**, available to start immediately.

# EDUCATION

## Master of Science in Information Technology August 2023-December 2024

University Of Cincinnati, Cincinnati, Ohio

## Bachelor of Technology in Information Technology

Bapatla Engineering College, Bapatla, India

# TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, Linux, JavaScript, C, SQL.

**Web Development:** HTML, CSS, JavaScript, Flask, React.js, Node.js, Java Servlets, RESTful API Development.

**Cloud Platforms:** Azure (Azure Functions, Azure Key Vault, Azure Storage), AWS (EC2, S3, Lambda)

**Databases:** MySQL, SQL Server, Snowflake

**Big Data & Streaming:** Apache Kafka, Apache Spark, PySpark

**CI/CD & Automation:** GitHub, Jenkins, Docker, Kubernetes

**Monitoring & Troubleshooting:** Linux system administration, Networking, OS & Code Upgrades

**Software&OS:** Linux, Microsoft Office (Word, Excel, PowerPoint, Access) & Windows (All versions).

**Networking:** Knowledgeable with computer networking concepts and functionality.

# PROFESSIONAL EXPERIENCE

## Tata Consultancy Services (TCS): Assistant System Engineer and Trainee:

## July 2022-July 2023

* Developed and maintained enterprise-level applications using **Python, Java, and JavaScript**.
* Built and optimized **RESTful APIs** for internal and external integrations.
* Conducted **code reviews, debugging, and performance optimizations** to improve system efficiency.
* Implemented **CI/CD pipelines using GitHub and Jenkins** for automated deployments.
* Worked with **Linux and cloud environments** to ensure system stability and security.
* Implemented agile methodologies via Jira, accelerating projects by 25% and reducing post-launch bug fixes by 15%.
* Worked on system engineering tasks, focusing on seamless project execution and delivery.

## CIQS Digital: Data Engineer Intern: July 2021-June 2022

**Description:**

Developed dashboards for MBA INSITE Product teams across all markets where Shell owns/operates fuel sales data. The business uses a data-driven approach to manage fuel sales across markets, leveraging Power BI for insights.

## Responsibilities:

* Created fully parameterized pipelines to ingest data from SAP BW to Azure Gen2 Data Lake.
* Developed Azure Databricks notebooks for data transformation and ingestion into Azure SQL Database.
* Created Delta tables in Azure Gen2 using Databricks. Wrote SQL queries using Spark SQL to process data.
* Validated data in higher environments and obtained project team sign-off before production deployment.
* Deployed and scheduled pipelines using GitHub. Involved in both development and production environments.

**Environment**: Spark, Spark SQL, SQL Server, Azure Databricks, ADLS, Python

## Exposes Data Labs: Software Developer Intern Jan 2021-May 2021

* Leveraged cybersecurity best practices, such as Python, HTML, CSS, and JavaScript, to develop MSG Secure, ensuring robust encryption and protection against cyber threats.
* Reduced processing duration by 20% and increased user engagement by 25% by creating interactive web interfaces.
* Led a team in developing MSG Secure, showcasing leadership in cybersecurity and technical proficiency.

# ACADEMIC PROJECTS

## Student Performance Prediction System

* Collected and integrated multiple data sources (academic and personal) to build a predictive model for student performance.
* Built a web-based interface using HTML, CSS, Bootstrap, JavaScript, and React.js for seamless user interaction.
* Selected machine learning algorithms in Python, achieving 80% accuracy in predicting academic outcomes.
* Analyzed prediction results and provided actionable insights to enhance academic performance and educational outcomes.

## Real-time Traffic Data Processing System

* I have built a data pipeline for real-time traffic data ingestion, processing, and analysis.
* Streamed data using Apache Kafka and processed it with Apache Spark and Azure Databricks.
* Stored data in Azure Data Lake and visualized insights with Power BI.
* Applied machine learning to predict traffic patterns and suggest optimal routes.

## Customer Sentiment Analysis System

* Collected and preprocessed customer feedback data from various sources to build a sentiment analysis model.
* Developed a user-friendly dashboard using Flask and JavaScript to display real-time sentiment analysis results.
* Applied natural language processing (NLP) techniques in Python, achieving 85% accuracy in sentiment classification.

# CERTIFICATIONS

* Microsoft AWS Cloud Practitioner, Python, Linux, Machine Learning.