Supriya Pasupuleti

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Education

- **Sri Venkateswara Engineering College for Women** — Tirupati, IN
  Bachelor of Technology in Computer Science; Percentage: 78.86 — *June. 2015 – May. 2019*

Programming Skills

Languages: Python

Version Control: Git

Database Management: PostgreSQL, MySQL, MongoDB, Pandas

Web Development : Flask

Cloud Services : GCP - Big Query, Cloud Storage, Cloud Functions, Containers, AWS - Lambda

Operating System : Windows, Linux

Work Experience

- **Saama Technologies** — Chennai, IN
  Systems Engineer — *March 2022 - Present*
  - **Data Conversion Innovation**: Engineered a tool to detect missing transactions during clinical data conversion, reducing 80% of manual work involved by using Pandas Data frames for data manipulation.
  - **AI-Powered Code Generation and Quality Assessment**: Integrated GPT-3.5 Turbo model to generate Python code that takes and processes Pandas data frames as input with a 70% accuracy rate.
  - **Automated Migration of Python Programs**: Collaborated on automation of migration for 1000+ Python programs across studies, connecting seamlessly to patient insights database.
  - **Proficiency in Git Actions**: Managed a portfolio of over 100 codes with comprehensive logging and traceability. Proficient in Git Actions for post-push task automation, code review, and validation.
  - **API Development and Search Functionality**: Coordinated development of robust APIs enabling search functionality in four formats: exact, starts with, ends with, and contains search.
  - **Database Automation**: Engineered tailored AWS Lambda function to automate PostgreSQL database updates, reducing manual work by 20 hours weekly, enhancing operational efficiency.
  - **Performance Optimization** : Strategically optimized advanced PostgreSQL queries, achieving 70% enhancement in data retrieval efficiency, significantly elevating overall system performance.
- **Infosys Limited** — Hyderabad, IN
  Senior Systems Engineer — *December 2019 - March 2022*
  - **Knowledge Extraction and Optimization**: Optimized Python Flask APIs for 100% efficiency in extracting knowledge from PDFs, text, and web URLs.
  - **Efficient Knowledge Storage**: Expertly set up MongoDB to streamline storage and retrieval of diverse knowledge from text, web pages, and PDFs, ensuring seamless data organization and quick access.
  - **Enhanced Data Representation**: Innovatively transformed MongoDB-stored data into a Neo4j graph database, elevating data representation and analysis capabilities, enabling comprehensive insights and strategic decision-making.
  - **Data Integration and File Movement**: Implemented Python and Shell scripting codes to facilitate seamless movement of more than 200 files per hour from Google Cloud Storage (GCS) to BigQuery.
  - **Data Conversion and Transformation**: Collaborated on Python scripts for converting nested XML and JSON data, extending up to 6 degrees, into CSV format.
  - **Database Management and Metadata**: Played a crucial role in creating and updating PostgreSQL metadata tables, ensuring data consistency and eliminating redundancies.
  - **Streamlined Data Validation Processes**: Developed automated data validation scripts to ensure accuracy and integrity of data transferred from GCS to BigQuery, reducing error rates by 25%.

Certifications

- Infosys Certified Python Developer,Infosys.
- Infosys Certified Mongo Developer,Infosys.
- Infosys Certified Database and SQL Professional, Infosys