

PAVAN KUMAR GATTUPALLI

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SKILLS

Flask, Django, Spring Boot, AWS, MySQL, Azure, React, Javascript, Python, TypeScript, Java, Bash/Shell Scripting, PySpark, React Native, Redux, Node.js, Fast API, Python Libraries, Git, Google Cloud / GCP, SQL Server, PostgreSQL, REST API, Elastic Search, Pandas, CI/CD, Kubernetes, Docker, BigQuery, Microservices

EXPERIENCE

Application Engineer 2

Flipkart

📅 Apr 2024 - Present 📍 Bengaluru, India

- Developed & architected scalable backend microservices primarily using Python (alongside Java/SpringBoot) for advertisement technology, enhancing core infrastructure.
- Engineered & deployed resilient Python microservices on Kubernetes clusters within Google Cloud Platform (GCP), integrating with Spark, Redis, Aerospike, & MySQL.
- Optimized Invoice Generation Microservice (partially developed with Python), reducing unnecessary user processing by 75% and cutting storage needs by 33% through duplicate elimination.
- Streamlined production database management, leading upgrades for 27 active unmanaged users to significantly enhance system reliability and performance.
- Developed a critical internal debug tool in Python, drastically accelerating troubleshooting and reducing Mean Time To Resolution (MTTR) for complex production issues.
- Implemented & maintained robust CI/CD pipelines for automated Docker containerization, testing, and reliable deployment of microservices to Kubernetes on GCP.

Backend Engineer

Wallerio Technologies

📅 Jul 2023 - Dec 2023 📍 Hyderabad, India

BigQuery Client API:

- Developed high-performance BigQuery client APIs utilizing Python (Django & FastAPI), significantly reducing time for data retrieval and analysis.
- Designed and implemented scalable API endpoints with FastAPI, effectively processing high volumes of requests to cater to a growing user base.
- Documented API functionalities extensively with Swagger, facilitating a more user-friendly and accessible developer experience.
- Orchestrated Docker-based deployments of Python applications on Google Cloud Platform (GCP), streamlining the deployment process and reducing potential errors.
- Adapted core solutions to FastAPI, resulting in a 15% improvement in overall system responsiveness.
- Implemented robust authentication functionality using MSAL for Azure AD, securing API access.

SharePoint Scraping:

- Engineered optimized Python scripts that accelerated the extraction of files and folders from SharePoint, improving overall system performance.
- Conducted comprehensive refactoring efforts on the Python script, enhancing its modularity and maintainability for future enhancements.
- Built code optimizations to reduce resource consumption during SharePoint interactions, contributing to more efficient operations.
- Designed a seamless Python interface for direct SharePoint integration, simplifying the overall workflow.

General Backend & Cloud Enhancements:

- Maintained strong focus on code quality and documentation, fostering a more organized and sustainable development process across multiple projects.

- Led thorough code refactoring initiatives, simplifying the codebase and significantly enhancing maintainability for the development team.
 - Leveraged GCP Cloud Functions to enhance system scalability, enabling the backend to handle increased data loads effortlessly.
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Backend Engineer

Wipro Limited

📅 Jul 2021 - May 2023 📍 Bengaluru, India

- Led software development initiatives within the shipping domain, overseeing project lifecycle from concept to deployment.
- Resolved 30% of identified bugs across consecutive sprints, significantly enhancing application stability and reliability.
- Engineered and implemented complex new calculations and business rule changes, enriching core application functionality and expanding feature sets.
- Contributed significantly to User Acceptance Testing (UAT) and functional testing, ensuring the robustness, quality, and performance of developed features.
- Delivered new application features, substantially improving overall system capabilities and enhancing the end-user experience.

PROJECTS

Python SharePoint-Connector

- Built and maintained a robust Python-based connector for Microsoft SharePoint, available as an open-source tool for public use.
- Engineered scripts to accelerate file and folder extraction from SharePoint, achieving a 40% improvement in data retrieval times.
- Refactored code to ensure modularity and ease of maintenance, facilitating future enhancements and community contributions.
- Applied efficient code optimizations that reduced resource consumption during SharePoint interactions by 25%.
- Designed a Python interface that simplifies integration with SharePoint, enhancing user experience and workflow efficiency.
- Leveraged cloud functions to ensure the solution could handle increased data loads, providing scalability and reliability.
- Actively engaged with the open-source community, incorporating feedback and contributions to continuously improve the tool.

EDUCATION

BE/B.Tech/BS

Sree Venkateswara College of Engineering

📅 2020

ACHIEVEMENTS

- Published articles on System Design, OOPs, Data Structures, Data Engineering and Backend Engineering.
- Worked as a Mentor, Coding Instructor in multiple organizations.

VOLUNTEERING

- Mentor at GeeksForGeeks, Scaler, ByteXL, Guvi, PeriFerry.
- Act as tech trainer internally in worked organizations .
- Worked as Python Developer in Turing.com for OpenAI-ChatGPT.