LOKESHPRASANTH GADESULA

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with 5+ years of experience in building scalable backend systems and delivering high-impact cloud and data engineering solutions. Adept at integrating AI/ML models, automating end-to-end data pipelines, and deploying cloud-native applications. Proven track record of reducing infrastructure costs, accelerating analytics workflows, and empowering data-driven business decisions.

SKILLS

Languages: Python, C/C++, Java, SQL, Shell Script, PHP, GoLang
Frameworks: Django, Flask, FastAPI, React.js, AngularJS
Web Technologies: HTML5, CSS3, JavaScript, jQuery, AJAX, XML, JSON
Cloud Platforms: AWS, Terraform, Microsoft Azure, Docker, Kubernetes
Databases: MySQL, Oracle, MongoDB, Cassandra, NoSQL, PostgreSQL
AI/ML Tools & Python Libraries: Scikit-learn, Tensorflow, Keras, Pytorch, OpenCV, Pandas, NumPy, Matplotlib, SciPy, Pytables, Seaborn, BeautifulSoup
Big Data & Streaming: Hadoop, Apache Kafka, Kinesis, Hive, HBase, CSV
Reporting & Visualization: Power BI, Tableau, Word/Pages/Docs, MS PowerPoint, Excel/Numbers/Sheets
Web Servers: Apache, IIS, HTTP Server, WebLogic, Jboss
Operating System: Linux/Unix, Windows, MacOS
Methodologies: Agile, Waterfall, SCRUM, CI/CD, Test-Driven Development (TDD)

PROFESSIONAL EXPERIENCE

Cybersoft Technologies **Houston, TX, USA**
Senior Software Engineer – Full Stack & DevOps *September 2023 - Present*

- Boosted user engagement by 25% by leading frontend redevelopment using React.js and enhanced HTML structure, collaborating with backend teams for seamless API integration.
- Reduced latency by 30% and improved concurrent request handling by designing scalable RESTful APIs and backend logic, leveraging data structures and cloud infrastructure best practices.
- Decreased deployment times by 40% and reduced release errors by automating CI/CD pipelines using Azure DevOps, implementing technical writing standards for deployment documentation, and improving backend and frontend cloud workflows.
- Enabled predictive analytics and real-time insights for 6+ departments by building data pipelines using Hadoop, PySpark, and cloud infrastructure, applying advanced data structures for backend processing.
- Enhanced reporting reliability and guided $800K+ in investment decisions by creating Tableau dashboards, improving ETL pipelines for Snowflake, and providing technical writing on data workflows for frontend and backend reporting systems.

Zognu **Hyderabad, AP, India**
Software Engineer – Cloud & Data Engineering *September 2022 - July 2023*

- Enhanced user retention by 20% and supported $500K+ in revenue by delivering robust backend services and seamless API integrations for cloud infrastructure, collaborating with frontend teams to ensure scalable HTML compatibility.
- Achieved 99.9% uptime for web applications serving 10K+ users/month by developing and maintaining Django-based frontend and backend systems with strong HTML structure, optimized data structures, and clear technical writing for maintainability.
- Reduced data processing time by 45% for large-scale datasets on cloud infrastructure by engineering scalable data pipelines with efficient data structures, enabling reliable backend and API operations for dynamic frontend HTML displays.
- Improved environment consistency and reduced manual setup time by 60% by provisioning cloud infrastructure with Terraform and documenting setup processes through clear technical writing to support both backend and frontend development.
- Enabled real-time data sync for 5 client-side tools by integrating frontend Electron applications with backend APIs, ensuring HTML data representation was synchronized across cloud infrastructure for a seamless user experience.

NullClass **Bengaluru, KA, India**
Software Engineer – AI & Platform Engineering *September 2020 - August 2022*

- Reduced manual report preparation by 25% and saved $100K annually in analyst time by engineering full-stack solutions that integrated HTML for dashboard interfaces and robust data structures for efficient analytics processing.
- Powered enterprise analytics dashboards for retail clients by building secure backend APIs and intuitive frontend components with HTML, CSS, and JavaScript, ensuring seamless data flow and usability across cloud infrastructure.
- Improved scalability and reduced hosting costs by 20% by deploying containerized services to ECS/Kubernetes on cloud infrastructure, implementing backend optimizations and API integrations for enhanced system reliability.
- Enhanced reliability and performance of daily analytics workflows by designing backend data pipelines with efficient data structures and documenting processes through clear technical writing for maintainability and knowledge sharing.
- Enabled real-time fraud detection with 10-second latency by developing scalable backend architectures and RESTful APIs, leveraging HTML for monitoring dashboards and robust cloud infrastructure for high availability.

Edusera **Hyderabad, AP, India**

Software Engineer – Backend Systems & Data Pipelines *September 2019 - August 2020*

- Enabled a scalable student portal solution with backend and frontend integration using HTML, Django, and REST API best practices, supporting 2x user growth and contributing to a 30% increase in paid subscriptions.
- Reduced page load time by 40% for content management systems by designing optimized REST APIs and HTML templates, leveraging efficient data structures to enhance frontend responsiveness.
- Improved data quality for downstream reporting in cloud infrastructure by building robust ETL flows with PySpark and Amazon Glue, and integrating multiple third-party APIs into the backend pipeline.
- Ensured >85% unit test coverage across backend modules and APIs by practicing TDD with PyTest and contributing technical writing for documentation and test plans.
- Enhanced feature adoption by 35% by integrating third-party APIs into the backend and improving HTML-based content delivery for a seamless frontend experience within the cloud infrastructure.

FEATURED PROJECTS

Serverless Image Processing Pipeline

- Reduced image processing latency by 40% by engineering a backend API with HTML interfaces and robust data structures, automating image resizing, labeling, and metadata storage in AWS Lambda and DynamoDB, optimizing cloud infrastructure.
- Enabled cross-platform media accessibility by developing frontend and backend modules to support real-time image processing and metadata retrieval via API endpoints, ensuring code quality and scalability in a serverless cloud infrastructure.
- Improved system maintainability and documentation standards by authoring detailed technical writing on data structures, API integration, and cloud infrastructure for the open-source serverless image processing pipeline.
- Enhanced code quality and traceability by implementing code reviews and logical verification, capturing reproducible error traces, and refining evaluation metrics for HTML-driven backend workflows in a cloud environment.

Big Data Customer Insights Engine

- Enabled actionable churn predictions for marketing by building Spark pipelines with optimized data structures and HTML dashboards.
- Improved system integration and accessibility by developing APIs connecting backend machine learning outputs to frontend HTML/CSS visualizations.
- Strengthened team onboarding and documentation by authoring technical writing for system architecture, backend setup, and HTML standards.
- Enhanced data processing scalability by architecting backend systems with advanced data structures and APIs in cloud infrastructure.

Cloud DevOps Automation Toolkit

- Accelerated deployment cycles by 40% by engineering backend and frontend automation scripts leveraging APIs and data structures, with HTML dashboards for real-time monitoring of cloud infrastructure on AWS and Azure.
- Enhanced system reliability and code quality by designing and documenting technical solutions, including reusable HTML templates and API integrations for cloud infrastructure, adhering to software architecture and technical writing best practices.
- Reduced manual intervention by 60% through development of automated monitoring scripts that captured reproducible error traces, integrated backend APIs, and produced clear technical writing for streamlined troubleshooting in cloud infrastructure.
- Improved team onboarding efficiency by authoring detailed technical writing, including HTML-based user guides and API reference documentation, to facilitate knowledge transfer and adoption of best practices in cloud infrastructure automation.

Cloud-Based Real-Time Data Analytics Platform

- Enabled real-time tracking of customer activity with sub-second latency by engineering scalable backend and API integrations, optimizing data structures, and ensuring robust cloud infrastructure using AWS Kinesis, Glue, and Athena.

- Enhanced cross-functional usability and data visualization by developing frontend components with HTML and CSS, delivering clear and actionable insights to stakeholders through intuitive dashboards.
- Improved code quality and maintainability by authoring comprehensive technical writing, including system documentation and API references, to support knowledge transfer and future development.
- Facilitated open-source contributions and community engagement by sharing platform modules and HTML templates, incorporating community feedback to drive iterative enhancements.

Data Cleaning & Wrangling Automation Framework

- Accelerated data preprocessing workflows for large datasets by engineering a Python-based backend automation framework, leveraging advanced data structures and integrating with cloud infrastructure APIs for automated null handling, outlier detection, and profiling.
- Enhanced accessibility and transparency of data profiling reports by developing HTML-based interactive dashboards and documentation, applying technical writing skills to clearly present profiling results and data quality metrics to both technical and non-technical stakeholders.
- Improved code maintainability and clarity by documenting framework architecture, API endpoints, and reusable modules using industry-standard technical writing practices, supporting open-source adoption and collaboration.
- Increased system robustness and code quality by implementing reproducible error trace capturing and suggesting improvements to data validation logic, ensuring high-quality backend and frontend code throughout the automation framework.

Real-Time Cloud Monitoring System

- Enabled proactive detection of performance issues across distributed cloud infrastructure by engineering backend APIs and data pipelines using Kafka and AWS Glue, structuring data flows with efficient data structures for rapid metric analysis and alerting.
- Improved application transparency and user engagement by developing frontend dashboards with HTML and Tableau to present actionable insights, ensuring code clarity and logical accuracy for technical and non-technical stakeholders.
- Accelerated incident response and system reliability by designing and implementing robust backend alerting mechanisms leveraging advanced data structures and cloud-native services, optimizing API performance for scalability.
- Enhanced technical documentation quality and team knowledge sharing by authoring comprehensive technical writing, including API specifications, data flow diagrams, and user guides to support cross-functional teams and future open-source contributions.

KEY ACHIEVEMENTS

- Reduced deployment times by 40% and release bugs by 70% across all environments.
- Built data pipelines that processed over 5TB/day, enabling real-time reporting and analytics.
- Reduced cloud infrastructure costs by 30% through optimized resource provisioning.
- Created dashboards accessed by 100+ business users across departments.
- Maintained 99.9% application uptime for high-traffic platforms.

EDUCATION

Southeast Missouri State University
Master's, Computer Science

Kakatiya university
Bachelor's, Computer Science