SUNIL GUNTUPALLI

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SUMMARY

Software engineer with 4+ years of experience building cloud and data systems across Azure and AWS. Skilled in Kubernetes, Docker, Terraform, Python, and Java. Experienced in designing large-scale pipelines (**5TB/day**, **10M+ records/day**), optimizing cloud costs, and building production-ready systems with high availability.

EXPERIENCE

OpenQQuantify **Aug 2024 - Nov 2025**
Software Engineer *Virginia, USA*

- Built Azure Data Factory pipelines processing **10M+ records/day**, reducing runtime by 40% through partitioning and parallelization.
- Developed Terraform modules for multi-environment deployments, cutting provisioning time by 60%.
- Implemented autoscaling and storage tiering strategies, reducing Azure costs 30%.
- Built Azure Monitor dashboards with Power BI visualizations, improving incident resolution time by 35%.
- Dockerized Java microservices and set up CI/CD pipelines with GitHub Actions and Helm charts, enabling reliable deployments.

Aramark **Aug 2023 - Apr 2024**
Software Engineer *Cincinnati, USA*

- Created automated daily reports in Excel using VBA, saving over 15 hours of manual work each month.
- Improved inventory tracking by implementing FIFO logic in Python with Delta Lake, raising accuracy to 99.8%.

Motorola Solutions **Jun 2021 - Jul 2023**
Software Engineer *Bengaluru, India*

- Built real-time telemetry pipelines handling **5TB/day** with Azure Stream Analytics and Functions.
- Migrated and containerized 15+ applications to Kubernetes (AKS) achieving 99.99% uptime.
- Automated provisioning of 50+ cloud resources using Terraform (4 hours → 15 minutes).
- Implemented CI/CD pipelines using GitHub Actions and Docker, enabling zero-downtime deployments.
- Built Python-based cloud cost-tracking automation integrated with monitoring tools, saving $18K per month.
- Developed backend microservices in Python and Java, containerized with Docker and deployed via GitHub Actions, enabling faster releases and easier scaling.

Deloitte **Jan 2021 - Apr 2021**
Software Engineer *Bengaluru, India*

- Migrated 20+ legacy reports to Azure Synapse, improving query performance 35%.
- Automated 200+ user onboarding workflows with GitHub Actions, Docker containers, and Python, saving 25 hours per week.
- Implemented role-based access control (RBAC) in Azure using Terraform, reducing unauthorized access incidents by 45%.

Mad Crayons **Jun 2020 - Jul 2020**
Software Engineer Intern *Delhi, India*

- Developed AWS Lambda APIs and automated S3 backups, eliminating manual work and improving daily reliability.
- Containerized Flask services with Docker and set up CI/CD pipelines, reducing deployment time and improving release reliability.
- Managed and enforced AWS WAF and IAM security rules, significantly reducing security risks and blocking unauthorized access.

EDUCATION

University of Cincinnati **Aug 2023 - May 2025**
Masters of Engineering, Computer and Information Sciences

- **Achievements:** Specialized in Cloud Computing and Data Engineering, Built distributed systems with Kubernetes and microservices, Developed ML pipelines supporting data analysis and AI workloads.

Koneru Lakshmaiah Education Foundation **Jul 2018 - May 2022**
Bachelor of Technology, Computer Science

- **Achievements:** Led 50+ workshops on Python, Java, and Data Structures, Mentored 1,200+ students in algorithms and coding, 85% placement success.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java
- **Cloud Platforms & Services:** Azure (ADF, Synapse, Functions), AWS (Lambda, S3, ECS), GCP (basic exposure)
- **Containerization & Orchestration:** Docker, Kubernetes, AKS
- **Infrastructure & DevOps:** Terraform, CI/CD, GitHub Actions, Azure DevOps, Infrastructure as Code
- **Data & Analytics:** Spark, Azure Data Factory, Data Pipelines, Delta Lake, Real-Time ETL
- **Other Tools & Concepts:** MLOps, Cloud Cost Optimization, Monitoring & Observability, Automation, Backend Microservices

PROJECTS

Cloud Data Pipeline Optimization Platform

- Built a cloud-native data pipeline platform using Azure + Spark that processes high-volume datasets with automated scaling, monitoring, and cost controls. Supports AI workloads and real-time reporting.

VOLUNTEERING

Koneru Lakshmaiah Education Foundation | *Technical Mentor & Community Builder* **Jun 2019 - Apr 2022**

- Mentored 1,200+ students in coding and interview prep.
- Designed 20+ hands-on workshops rated 4.8/5.
- Led STEM initiatives for 500+ underserved students.