Siddharth

Lead SRE

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SUMMARY

Experienced Site Reliability Engineer (SRE) with over 14 years of expertise in managing, optimizing, and scaling complex systems and infrastructure. Adept at ensuring high availability, performance, and reliability across Google Cloud Platform with a strong focus on automation, monitoring, and incident response. Skilled in CI/CD(Gitlab), containerization (Docker, Kubernetes), and infrastructure-as-code tools (Terraform). Passionate about applying SRE principles to MLOps , with a strong interest in building reliable, scalable machine learning pipelines and integrating best practices for AI/ML operations. Eager to leverage my background in reliability engineering and automation to contribute to the intersection of SRE, DevOps, and MLOps, driving efficiency and innovation across cross-functional teams.

KEY SKILLS

• Machine Learning Methodologies
• Predictive & Statistical Modelling • Data Analysis
• Data Visualization • Project Delivery • Programming • Process Improvement
• Team Coordination & Leadership • DevOps • MLOps • Agile

TECHNICAL SKILLS

Languages: Python, Shell Scripting
Cloud Computing: Google Cloud Platform, Kubernetes, GitLab, Terraform,Helm, Hashicorp Vault
Machine/Deep Learning: Linear/Logistic Regression, Decision Tree, Random Forest, ANN,RNN, TensorFlow, NLP,Langchain,MLOps
Database: MySQL, Oracle,Cassandra

EDUCATION

Post-Graduation Certification in Data Science — Nov '20 - Nov '21
IIIT Bangalore & upGrad — Bangalore,IN
B.Tech in Electronics & Communication Engineering — Aug '06 - May '10
Siliguri Institute Of Technology — Siliguri, IN

- **Secured 80%**

KEY DATA SCIENCE PROJECTS

- **Domain: Telecom | Tech Stack: Python | Github**
  - Objective: To predict the customer churn for a telecom giant
  - Solution: Designed a machine learning model with logistic regression, decision tree and random forest to predict consumer churn
  - Key Achievement: Developed a model with an **AUC score of 0.80**

PROFESSIONAL EXPERIENCE

Lead SRE — Mar '22 - Present
Thales — Noida,IN

- Implemented various techniques in product upgrade to reduce the implementation duration by 30%.
- Utilized Shell and Python scripts to automate job creation and report generation for clients, resulting in a **25% reduction in service downtime**
- Managed testing of new product versions, presenting results to diverse stakeholders resulting in **increased adoption rate and positive feedback**
- Architected infrastructure leveraging Terraform and Gitlab pipeline integration on Google Cloud Platform, focusing on **enhancing scalability and performance**
- Executed the migration of a Kubernetes based application from on-premise to Google Cloud Platform, yielding a **40% increase in efficiency**, leveraging Kubernetes, GCP, and Helm technologies
- Ensured timely task completion within Service Level Agreements (SLAs) by engaging with all stakeholders, **leveraging collaboration software for seamless coordination**

Team Lead — Dec '10 - Feb '22

Tata Consultancy Services Mumbai,IN

Project:National Commercial Bank (Jeddah, Saudi Arabia)

- Guided a team of 12 members at client location, enhancing on-time delivery **of customer deliverables by 20%**
- Collaborated with external partners and internal teams to consistently meet task deadlines in adherence to **Service Level Agreements (SLA)**
- Led the full lifecycle of micro services projects, overseeing from inception to completion, resulting in **enhanced project deliverables quality**
- Ensured project timelines were consistently met by implementing **change control processes** and preserving project baselines with precision
- Planned, architected, programmed, and evaluated **robust test systems to optimize application performance**, leading to a 30% reduction in bugs; Encompassed all test scenarios and integrated diverse testing methodologies.
- Designed, integrated, and tested components of the analysis pipeline for **seamless deployment in production software**, leveraging Docker, Kubernetes, and Git to enhance deployment efficiency and accuracy
- Transformed business requirements into detailed technical design documents, fostering effective communication between business and technical teams, resulting in **improved team collaboration**, reduced development errors, and enhanced project efficiency
- Boosted quality control and output by implementing efficient processes and procedures, resulting in a **25% enhancement**, facilitated by automation tools
- Attained a '**right the first time**' approach by meticulously monitoring and analyzing data using Python to pinpoint and address issues, leading to a 15% reduction in error rates
- Enhanced efficiency by 20%, minimized downtime by 15%, and **elevated user satisfaction levels** by configuring, installing, and managing banking applications across production and non-production environments.
- Crafted detailed application installation instructions utilizing **MS Word and PDF** for a team of 10-20 members

Production Support Mar '11 - Dec '14

Project: State Bank Of India Mumbai,IN

The largest domestic project in India for Development, Customization, System Integration and Implementation of a Core Banking Solution to deploy a high-performance, 24x7, state-of the art "anywhere banking"

- Oversaw application design and development within the Interfaces portfolio of the SBI CBS Development Project, utilizing advanced UNIX and SQL skills to create **highly efficient scripts for gathering business-oriented data**, resulting in significant performance enhancements and aiding in the analysis and improvement of SBI's working architecture
- Managed SBI online/offline/EOD/SOD operations using customized monitoring tools, resulting in a **20% efficiency increase**, a 15% reduction in errors, and significant streamlining of processes
- Managed operational level duties for SBI-associate banks, overseeing the generation of daily reports for all SBI-Branches and **SBI-associate banks**, while monitoring efficiency ratios and timely completion rates
- Managed a high volume of transactions in SBI across various channels including trickle-feed, leveraging technologies like ATM, NEFT, and RTGS to elevate operational efficiency by **accelerating transaction speed** and ensuring enhanced accuracy in transactions

CERTIFICATIONS

- **GCP** — Google Certified Associate Cloud Engineer| Google | May'23