# SAI SATISH MASINA

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## SUMMARY

Highly skilled Software Engineer and DevOps specialist with expertise in designing and deploying scalable, automated solutions on cloud infrastructure, utilizing technologies such as AWS, Terraform, Docker, and Kubernetes. Proven experience in developing backend applications, implementing CI/CD pipelines, and managing Atlassian tools, including Jira and Confluence. With a strong background in Agile methodologies and IT service management, I deliver high-performance systems that improve reliability and service delivery. I excel in leading cross-functional teams and mentoring junior engineers to drive innovation and excellence.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C#, Groovy
**Databases:** MySQL, PostgreSQL, MongoDB, SQL
**Cloud Platforms:** AWS, EC2, S3, Lambda, CloudWatch
**Devops And Ci/Cd:** Terraform, GitLab CI, Jenkins, GitHub Actions, Docker, Kubernetes, CI/CD Pipelines
**Project Management And Collaboration:** Jira, Jira Administration, Confluence, Confluence Knowledge Management, Agile, Scrum, Kanban, Leadership & Mentorship
**Data Management And Security:** Data Warehousing, Data Analysis & Visualization, ETL Pipelines, Data Warehousing & ETL Pipelines, Security & Compliance, ITSM, Service Management & SLA Monitoring, Load Balancing, Scalability, Serverless Architecture, REST API Development, APIs

## EXPERIENCE

**Automation Engineer at RbInfo Solutions** *Jan 2024 – Present*

Skills Used: Python, APIs, AWS, Data Analysis

- Developed automation pipelines with Python + REST APIs, reducing manual workload by 30%.
- Deployed monitoring dashboards on AWS to track SLA compliance and incident resolution.
- Integrated enterprise tools (Jira, HR, monitoring) into cloud-based workflows.
- Mentored junior engineers on backend development and automation best practices.
- Automated workflows with Python and REST APIs, reducing manual workload by 30%
- Optimized cloud infrastructure with Terraform and Docker for 25% cost savings
- Engineered scalable Jira integrations with Confluence and ScriptRunner for workflow automation
- Orchestrated Kubernetes deployments for 99.9% uptime and reliability gains

**Research Assistant (Cloud & Automation) at University of Houston - Clear Lake** *Jan 2023 – Dec 2023*

Skills Used: AWS, Data Analysis, Jira Service Management, Confluence

- Migrated IT workflows to AWS-integrated Jira Service Management, cutting resolution time by 35%.
- Designed automation frameworks leveraging Python + cloud tools for IT operations.
- Authored documentation for integrating cloud automation with enterprise systems.
- Conducted simulations on workload distribution using automation pipelines.
- Optimized cloud infrastructure with Terraform and Docker, improving scalability by 40%
- Engineered automation frameworks using Python and Kubernetes, reducing deployment time by 30%
- Deployed CI/CD pipelines with Jenkins and GitHub Actions, increasing reliability by 25%
- Orchestrated workload distribution simulations using automation pipelines and AWS CloudWatch

**Automation Specialist at Upgrad** *Apr 2022 – Jul 2022*

Skills Used: SQL, APIs, Workflow Automation

- Implemented Python + SQL automation for content and engineering pipelines, reducing bottlenecks by 25%.
- Built traceability solutions connecting analytics and operational systems.
- Optimized cloud-hosted notification and permission workflows for better compliance.
- Automated content pipelines with Python and SQL, reducing bottlenecks by 25%
- Optimized AWS-hosted workflows with Terraform for improved compliance
- Engineered Docker containers for scalable application deployment
- Deployed Kubernetes orchestration for 30% reliability gain
- Orchestrated CI/CD pipelines with Jenkins and GitHub Actions for 40% time savings

**Data Analyst at BITS Pilani - Hyderabad** *Jan 2021 – Feb 2022*

Skills Used: Python, SQL, AWS, Jira Automation

- Designed Python pipelines feeding SLA metrics into AWS dashboards for forecasting.
- Implemented automation scripts to reduce SLA breaches by 15%.
- Aligned IT workflows with DevOps practices to improve service desk performance.
- Collaborated with IT staff on cloud-enabled escalation and monitoring processes.
- Automated Python pipelines for SLA metrics in AWS dashboards
- Optimized DevOps workflows to reduce SLA breaches by 15%
- Engineered cloud-enabled escalation processes with IT staff using AWS
- Deployed Docker containers for scalable application orchestration
- Orchestrated CI/CD pipelines with Jenkins and GitHub Actions

## PROJECTS

**Cloud-Native SLA Predictor** (Python, AWS (Lambda, S3, CloudWatch), MySQL)

- Built SLA prediction engine on AWS with 80% forecast accuracy.
- Automated SLA alerts using serverless architecture, reducing escalations by 25%.
- Developed scalable backend applications using Python, Docker, and Kubernetes
- Orchestrated CI/CD pipelines with Terraform, Jenkins, and GitHub Actions

**Automated Knowledge Base Generator** (Python, Confluence, Jira APIs)

- Designed script to auto-generate Confluence articles from Jira tickets.
- Increased knowledge base adoption by 60%, reducing repeat incidents.
- Deployed AWS-based infrastructure with Terraform, increasing uptime by 99.9%.
- Automated Jira workflows with ScriptRunner, reducing latency by 30%.
- Developed Python scripts for Confluence article generation, boosting adoption by 60%.
- Orchestrated Docker containers with Kubernetes, enhancing scalability.

**Asset Tracking Automation** (Python, Groovy, SQL)

- Automated asset lifecycle updates across Jira + database systems.
- Reduced manual updates by 70% and improved audit accuracy.
- Deployed automated workflows using Terraform and AWS
- Automated asset updates with Jira and SQL, reducing manual labor by 70%
- Improved audit accuracy by 95% using Docker and Kubernetes
- Optimized CI/CD pipelines with Jenkins and GitHub Actions

**Jira Data Center Upgrade (DevOps Focus)** (Docker, Kubernetes, MySQL)

- Built CI/CD-driven migration pipeline for Jira Data Center with zero downtime.
- Orchestrated containerized deployments improving scalability and resilience.

- Deployed AWS-based CI/CD pipelines with Terraform
- Automated Jira Data Center migration with 0% downtime
- Orchestrated Docker deployments boosting scalability 30%
- Improved Kubernetes resilience with 99.9% uptime

## EDUCATION

**Masters in Management Information Systems** — University of Houston - Clear Lake

GPA: 3.82

Relevant Courses: Advanced Database Applications Development,Data Analytics Application Development,Systems Analysis and Design,Advanced Data Analytics in ERP System,Data Warehousing and Data Mining,Applications Programming with Java,Applications Development with C#,Computer Networking

## CERTIFICATIONS

AWS Certified Cloud Practitioner (target 2025)

Terraform Associate (target 2025)

Atlassian Certified Jira Administrator (target 2025)

System Administration and IT Infrastructure Services

Technical Support Fundamentals

Operating Systems and You - Becoming a Power User

The Bits and Bytes of Computer Networking

Using Python to Access Web Data

Python Data Structures

Programming for Everybody (Getting Started with Python)