

SAI SATISH MASINA

LinkedIn | Github | Portfolio

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SUMMARY

Results-driven Software Engineer and DevOps specialist with expertise in cloud infrastructure, automation, and backend development. Proven track record of designing scalable solutions, improving system reliability, and driving efficiency through automation and cloud optimization. Skilled in AWS, Terraform, Docker, Kubernetes, and Atlassian tools, with a strong background in Agile methodologies and ITSM. Dedicated to delivering high-performance systems and driving digital transformation.

TECHNICAL SKILLS

Programming Languages: Java, C#, Python, Groovy

Databases: SQL, MySQL, PostgreSQL, MongoDB

Cloud Platforms: AWS, EC2, S3, Lambda, CloudWatch, Docker, Kubernetes, Terraform

Agile And Project Management: Agile, Scrum, Kanban, Jira Administration, Confluence, ITSM, Service Management & SLA Monitoring

Devops And Ci/Cd: Jenkins, GitHub Actions, CI/CD Pipelines, GitLab CI, ScriptRunner

Data Analysis And Security: Data Analysis & Visualization, Data Warehousing & ETL Pipelines, ETL Pipelines, Security & Compliance, IAM, Load Balancing, Scalability, Serverless Architecture

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.

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.

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.

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.

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%.

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.

Asset Tracking Automation (Python, Groovy, SQL)

- Automated asset lifecycle updates across Jira + database systems.
- Reduced manual updates by 70% and improved audit accuracy.

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.

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)