

# Sai Varshith

## Site Reliability Engineer

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## EDUCATION

### M.Tech. + B.Tech. (Dual Degree) - Computer Science and Engineering

Indian Institute of Technology, Kharagpur

Jul 2017 - May 2022

CGPA - 8.54

Published research on Linux kernel security at [ACM](#) and [IEEE](#)

## EXPERIENCE

### Site Reliability Engineer II

Jul 2022 - Present

Honeywell Technology Solutions Lab Pvt. Ltd, Bangalore, Karnataka

Primary SRE for Honeywell's flagship Forge Platform. Member of Edge-Cloud Services team, responsible for optimizing and maintaining customer-to-cloud data flow for Honeywell's IoT SaaS products.

- Designed and developed a cloud native full-stack web app to monitor, alert and troubleshoot globally distributed IoT devices
- Integrated the app with existing alerting tools (ServiceNow, SendGrid and PagerDuty) to notify on-call roster, significantly improving response times and reducing our MTTR by 98%. Leveraged incident data generated by the app to perform corrective actions and reduce incident rate.
- Developed a tool to monitor and visualize client metrics on compute nodes deployed on Azure VMs
- Developed a tool to automatically renew and upload TLS certificates to front end load balancer
- Reduced Azure cloud cost by 30% by migrating 50+ compute workloads from Openshift to Azure Kubernetes Service (AKS) with zero downtime
- Automated cloud infrastructure management with Terraform and Python CI/CD pipelines using Bitbucket, Bamboo, Artifactory and Octopus Deploy
- Built monitoring dashboards in Grafana to Improve observability of Azure cloud resources
- Worked with cross-functional teams to design, develop and deploy CI/CD pipelines and cloud infrastructure for an experimental FedRAMP compliant environment
- Conducted incident response, triage, resolution, root cause analysis and corrective actions
- Shortened release windows from 8 hrs to 2hrs by collaborating with engineering, security, QA and product management teams to create plans that eliminate silos and avoid delays

### Software Engineering Intern

May 2021 - Jul 2021

Honeywell Technology Solutions Lab Pvt. Ltd, Bangalore, Karnataka

Member of engineering team for Honeywell's internal end-to-end testing platform

- Implemented RBAC using Azure Active Directory and Django Rest Framework
- Designed and implemented an interactive Microsoft Teams chatbot to quickly run end-to-end tests
- Built workflows with SendGrid, MS Teams and Celery to notify users on test progress and results
- Triage and fixed 20+ frontend and backend defects to improve performance and user experience
- Tech Stack - React, Django, Postgres, Celery, NodeJS, Azure

## SKILLS

- **Languages** - Python, Golang, Java, Javascript, Typescript
- **Frameworks** - FastAPI, Spring Boot, NodeJS
- **Infrastructure** - Kubernetes, Docker, Microsoft Azure, Terraform, Linux, Helm
- **Tools** - JIRA, Git, Github Actions, Bitbucket, Bamboo, Artifactory, Octopus Deploy

## CERTIFICATIONS

[Certified Kubernetes Administrator \(CKA\)](#)

2024

[HashiCorp Certified: Terraform Associate \(003\)](#)

2024

[Software Security Practitioner - Software Architect](#)

2023