

# Mitali Sahoo

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## PROFESSIONAL EXPERIENCE

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### Senior Software Engineer

March 2020 – December 2021

#### Samsung R&D Institute

Bangalore, India

- Proposed and led development of a cost prediction tool based on Google Cloud that helped with cost reduction recommendation and enabled cloud cost governance. This led to 30% savings in the resource expenses for the R&D division.
- Designed and implemented robust scalable Kubernetes based microservice architecture over multi-cloud Infrastructure for Bixby voice-controlled assistant components and successfully integrated with observability stack.
- Led enhancement of CI strategy for early fault detection prior services rollout and moved to Canary deployments to Spinnaker while improving the service availability by 20% margin.
- Developed an interactive chatops tool to centralize application deployment for external teams with role based controlled access.

### Software Engineer

July 2018 – January 2020

#### Capgemini India

Bengaluru, India

- Developed IaaS landing zone leveraging Terraform to quickly lay down baseline infrastructure, leading to save 8 hrs per customer thereafter.
- Led effort on improving the security posture of systems and cloud accounts leveraging Hashicorp Vault for secret management and integrated the same into automation with chatops bot framework.
- Automated provision and management of backend infrastructure with multiple open-source tools for 70+ customers.
- Implemented Dockerized IOT microservice and orchestrated the platform with Docker Swarm to transition from standalone to containerized infrastructure for a cruise line project.
- Experience working with multi-platform cloud infrastructure and building robust fault tolerant infrastructure backend solutions.

### Systems Engineer

June 2016 - April 2018

#### Tata Consultancy Services

Bengaluru, India

- Migrated 35+ applications based on virtual platforms into AWS Cloud infrastructure and managed build, migration, and cost optimization.
- Managed virtual and physical infrastructure, specific to backups with Veeam, storages, networking and monitoring stack for VMware vSphere.

## EDUCATION

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### Santa Clara University

Santa Clara, California

#### Masters in Science, Computer Science

Jan 2022 - Mar 2023

Courses: Distributed Databases, Big data, Web Search/Information Retrieval, Advances Algorithms, Machine Learning GPA: 3.77

### GITAM University, India (Bachelors in Technology, Information Technology)

Apr 2012 - Apr 2016

Courses: Algorithms, Object Oriented Design, Artificial Intelligence, Operating Systems, Networks.

GPA: 8.93/10

## PROJECTS

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- **Recommender systems implementation** on Netflix sample dataset using User based and Item based collaborative filtering to improve Netflix's recommendation algorithm. [\[github\]](#)
- **Page-Rank Analysis** of Berkeley Stanford graph dataset with Naive & Power Iteration algorithm - *Apache Spark*, *HDFS* [\[github\]](#)
- Proposed a **Sensory based respiratory self-healthcare checkup device** model on raspberry-pi and visualization on Grafana enabled with remote visual readings fed on cloud for health monitoring covid-19 (presented at Samsung BPA 20) [\[github\]](#)

## LANGUAGES AND TECHNOLOGIES & CERTIFICATIONS

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- **Languages:** Python, C, C++, Java, Shell, Javascript
- **Infrastructure:** Amazon Web Services (AWS), Google Cloud, Kubernetes, docker containerization
- **Technologies:** Node.js, django, MySQL, InfluxDB, Redis, hadoop, Apache Spark, Terraform, Jenkins, Github
- **CERTIFICATION:** AWS Solution Architect Professional Certified [ *Validation Number: KLP00VC13FRQQS33* ]