

Mitali Sahoo

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PROFESSIONAL EXPERIENCE

Senior Software Engineer

March 2020 – December 2021

Samsung R&D Institute

Bangalore, India

- Proposed and led development of a cost prediction web app 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

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

- **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

- **Languages:** Python, C++, Java, Bash, Javascript, JQuery, HTML5, CSS
- **Infrastructure:** Amazon Web Services (EKS, lambda, API Gateway, s3, SNS, VPC), Google Cloud, Kubernetes
- **Databases:** MySQL, DynamoDB, Oracle, InfluxDB, Redis cache
- **Technologies:** Node.js, Django, Hadoop, Apache Spark, Terraform, CI/CD, Docker, Git
- **CERTIFICATION:** AWS Solution Architect Professional Certified [*Validation Number: KLP00VC13FRQQS33*]