Mitali Sahoo

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PROFESSIONAL EXPERIENCE

Senior Software Engineer *March 2020 − December 2021*
Samsung R&D Institute *Bangalore, India*
- Proposed and led Cost Insight tool with Google Cloud that helped with Cost reduction recommendation and enable cloud cost governance. This led to 40% savings for the R&D division.
- Designed and developed an interactive chatbot that enabled Centralized access-controlled end-to-end application deployment cycle.
- Designed and implemented robust containerized scalable kubernetes Architecture over hybrid Cloud Infrastructure for Samsung automatic speech recognition components and helped migrate it with efficient observability setup.
- Led enhancement of CI strategy for early fault detection for the team and moved to Canary deployments to Spinnaker.

Software Engineer *July 2018 – January 2020*
Capgemini India *Bengaluru, India*
- Developed IaaC landing zone using Terraform/Ansible/scripting to quickly laydown baseline infrastructure.
- Led effort on security improvement of systems and cloud accounts with Hashicorp Vault for secret management and integrated the same into automation with chatops bot framework and stackstorm.
- Automated provision and management of backend infrastructure with multiple open-source technologies for 70+ clients.
- 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 hybrid cloud infrastructure and building robust fault tolerant infrastructure backend solutions.

Systems Engineer *June 2016 - April 2018*
Tata Consultancy Services *Bengaluru, India*
- Migrated 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*
MS, Computer Science and Engineering *Jan 2022 - Mar 2023 (expected)*
Courses: Distributed Database Systems, Big data, Web Search/Information Retrieval, Design & Analysis Algorithms   *GPA: 3.7*

GITAM University, Vizag (BTech, Information Technology) *Apr 2012 - Apr 2016*
Courses: Algorithms, Object Oriented Design, Artificial Intelligence, Operating Systems, Compilers, Comp Networks.   *GPA: 8.93*

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]*
- **Sensory based respiratory self-healthcare checkup device -** Built a 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]*
- **Fault Tolerant Workload Scheduling on preemptive infrastructure** to host stateless applications and scheduled them based on availability of preemptive node pool without losing service reliability to cut down infrastructure cost on K8s.

LANGUAGES AND TECHNOLOGIES & CERTIFICATIONS

- **Languages:** Python, C, C++, Shell, Java, Javascript,
- **Infrastructure:** Amazon Web Services (AWS), Google Could, 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**]