

Ankan Das

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PROFILE SUMMARY

Experienced Systems Engineer skilled in **DevOps** and **Data Engineering** with a proven track record in architecting, implementing, and maintaining **cloud**-based infrastructure. I excel in both **independent** and **collaborative** environments, **delivering results within tight timelines**.

SKILLS

TOOLS: PYTHON, POWERSHELL, BASH, TERRAFORM, GITLAB, PACKER, POSTMAN, DOCKER, MONGODB, NETAPP TOOLKIT

TECHNOLOGIES: AMAZON WEB SERVICES (AWS), AZURE DEVOPS, ACTIVE DIRECTORY, FLASK, REGEX, REST API, JSON, SQL, NOSQL, XPATH, XML, CSV

WORK EXPERIENCE

Tata Consultancy Services – Systems Engineer

20th May 2021 – Current

Cloud Infrastructure and DevOps:

- Enabled **on-demand scalable infrastructure**, streamlining **AWS** Infrastructure deployment by building **GitLab CI/CD** pipelines with **Terraform**, **bash** scripts and **Packer**
- Migrated legacy application to **AWS ECS (Fargate)**, reducing deployment time by **90%**
- Replicated and setup **Windows configuration** across on-premises and servers hosted on AWS using multi-processing **Python** and **PowerShell** scripts

Data Engineering:

- Built **scheduler** and **harvester** **AWS data migration pipelines** to warehouse data to AWS **Redshift** using AWS **Glue**, AWS **Lambda** (Python), AWS **SQS**
- Developed **cross-account data pipelines** for ML processes in AWS **SageMaker**
- Used Python **Regex** for batch processing millions of records in **CSV** files
- Eliminated human error by creating **PowerShell** scripts using **Robocopy** for secure **data transfer** and **validation** from on-premises **DFS** drives to AWS **FSx**

Disaster Recovery:

- **Automated failover of Clustered SQL servers using AWS FSx for NetApp ONTAP storage**, with Microsoft **Failover Cluster Manager**, **Disk Management**, **SnapMirror** automation using **Remote PowerShell** scripts, AWS **Lambda**, AWS **SSM**, AWS **DynamoDB**
- Implemented **cross-region failover/failback**, enabling **90% faster disaster recovery** on AWS as compared to on-premises servers
- Assured **Solr 0% downtime** with **PowerShell** scripts by taking advantage of **NETAPP ONTAP FSx** storage using **REST API**

PROJECTS

Open-Source Contributions:

- [Ankan's Super Shortener](#): Python (Flask) webapp to download image in required size, also features an URL shortener
- [Airify](#): Use hand gestures to control various utilities (already implemented for Spotify)
- [Pydiv](#) (pip install pydiv): Return fractional forms of decimal numbers as a Python package

EDUCATION

University of Engineering and Management, Kolkata (2017 - 2021)

- Bachelor of Technology (B. Tech), Computer Science and Engineering
- DGPA: 9.46

REFERENCES

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