

Chetan Tarale

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EXPERIENCE

Marlabs Innovations, Senior Technical Lead

07/2025 – Present | Remote

- Architected serverless ML infrastructure using AWS CDK, Lambda, Step Functions, and SageMaker to automate model training and deployment pipelines.
- Designed ETL workflows with AWS Glue, EventBridge triggers, and cross-account data access patterns to process broadcast and TTWN advertising datasets.
- Led a comprehensive documentation overhaul for complex AWS infrastructure, covering deployment processes, operational runbooks, and multi-environment orchestration.
- Implemented TypeScript-based CDK deployments managing secure IAM roles, environment-specific configurations, and zero-downtime deployment strategies.

Advance Auto Parts, MLOPS LEAD

07/2023 – 07/2024 | Remote

- Led design and development of AWS Managed Airflow with organizational workflows, integrating with Snowflake, S3, GCP, and external APIs to streamline data pipelines and reduce manual intervention.
- Established a robust process for onboarding new DAGs, ensuring efficient and standardized development.
- Maintained Airflow infrastructure by updating versions, running vulnerability scans, and alerting DAG owners of potential security risks.
- Integrated Airflow with AWS EMR and AWS Batch to enable scalable data processing and reduce execution time for large datasets.
- Collaborated with security teams to address code and infrastructure vulnerabilities, enhancing overall system security.
- Spearheaded cost optimization initiatives, resulting in a 50% reduction in AWS usage costs through strategic resource management, instance selection, and autoscaling practices.
- Designed and deployed a Service Catalog using CloudFormation to streamline provisioning of EC2 instances, EMR clusters, and S3 buckets, empowering internal teams and reducing provisioning time by 25%.

Advance Auto Parts, DEVOPS/CLOUD ENGINEER

02/2019 – 06/2023 | Remote

- Developed and implemented a CI/CD pipeline using Docker, Jenkins, and Terraform to automate the deployment of machine learning models to SageMaker, streamlining the deployment process and ensuring consistency.
- Designed and developed a REST API using API Gateway and Lambda functions to serve machine learning models, integrating with SageMaker and AWS services like S3 and CloudWatch.
- Implemented a robust logging and monitoring solution using New Relic to track and troubleshoot issues.
- Collaborated with data engineers and architects to design and implement efficient data pipelines and model deployment workflows.
- Extended the code deployment framework to trigger jobs on AWS EMR, enabling scalable data processing and ETL tasks.
- Integrated data processing and ETL tasks with tools like Checkmarx and Snyk to ensure code quality and security.

- Designed and implemented data labeling and distribution workflows using AWS Ground Truth to improve data quality and accelerate model training.

Eleven Internet Services LLP, DEVOPS ENGINEER

01/2018 – 12/2018 | Bangalore, KA

- Established and optimized a CI/CD pipeline using Jenkins to automate the infrastructure and deployment process for multiple domains on EC2.
- Migrated applications from EC2 to ECS, configured SSL certificates and DNS mapping using Route 53 to ensure secure and reliable access to applications with Terraform.
- Implemented blue-green deployments to minimize downtime and risk during updates.
- Set up a new AWS VPC to isolate analytics infrastructure and facilitate data sharing.
- Configured ELK Stack to centralize log ingestion, processing, and analysis.
- Implemented system health monitoring, automated deployment workflows, and A/B testing to ensure platform reliability and availability.
- Developed scripts to clean up unused data and managed overall AWS infrastructure administration, reducing cloud costs.

Shippable, SOFTWARE ENGINEER

11/2015 – 03/2017 | Bangalore, KA

- Contributed to the development of shippable, a scalable CI/CD pipelines, integrating multiple microservices using RabbitMQ and API-based communication to ensure seamless communication across services.
- Worked on integrating shippable with AWS, GCP, Azure, GitHub, Gitlab, Bitbucket S3, and various other external services to facilitate and streamline CI/CD processes.
- Built Docker base images for various programming languages with pre-configured tools, optimizing build processes and supporting diverse development environments.
- Designed and implemented a visualization tool using AngularJS and D3.js to monitor and analyze CI/CD pipeline performance, providing actionable insights.
- Collaborated with platform users to understand user needs and requirements, iteratively improving the CI/CD platform's usability and extending functionality.

SKILLS

AWS, Azure, Docker, Kubernetes, CI/CD, Jenkins, Terraform, Shell Scripting, Python, Nodejs, Javascript, GIT, New relic, ELK

EDUCATION

Visvesvaraya Technological University,
B.E IN COMPUTER SCIENCE AND ENGINEERING
07/2010 – 05/2014 | Belgaum, KA, IN

LINKS

Publications
<https://www.opensourceforu.com/author/chetan-tarale>