

Tarun Kumar Reddy Velagala

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PROFESSIONAL SUMMARY

Results-driven Application Engineer with **5 years** of experience. Built scalable, optimized applications and provided technical support. Adept at leveraging AWS services, Java, and RESTful APIs to deliver robust solutions.

TECHNICAL SKILLS

Programming Languages - Java, Python, SQL, Javascript, HTML, CSS

Frameworks & Tools - Git, RESTful API's, Micro-services, CI & CD

Cloud Technologies (AWS) - ECS, EC2, SQS, SNS, Lambda, Kinesis, S3, Glue, Cloudwatch

Database Management - DynamoDB (NoSQL), Redshift (PostgreSQL)

Testing Libraries & Observability - Junit, Mockito, TestNG

WORK EXPERIENCE

Application Engineer II

Oct 2023 – Present

Amazon

Bengaluru, KA

- Designed and implemented disaster recovery components with AWS Glue, Python which reduced operational overhead by **20%**, streamlined backfill processes and improved documentation. Migrated **5** data pipelines.
- Led the migration of query tools and code usages with Python scripts and AWS services during Redshift private subnet migration, maintaining **100%** data availability across **4** services with **zero downtime**.
- Enhanced onboarding processes and collaborated with cross-functional teams for migrating an internal data-sharing platform, purging **50 TB** of seller data and integrating **5** critical services.
- Contributed to migration of Balance Tracking Management service to a scalable microservice deployed on AWS ECS with RDS, enabling payment corrections with **3 RPS** and assisting in integration test development via TestNG.

Application Engineer

Apr 2022 – Sep 2023

Amazon

Bengaluru, KA

- Designed a scalable RESTful APIs, launch strategy for a seller payments tracking service (**100K daily visits, 15 RPS**), boosting query performance by **30%**. Mentored interns in API development.
- Spearheaded dataset migration across teams to an upgraded data warehousing system, improving query performance by **30%** and analytics capabilities.
- Engineered monitoring and integration testing using TypeScript, CloudWatch and TestNG for a Seller Payments Query Service, enhancing debugging, logging, and deploying a **CI/CD** pipeline.
- Identified and resolved **\$5M** in seller balance discrepancies through automated ticketing and financial reporting enhancements using AWS Athena and S3.

Support Engineer 2

Jul 2020 – Mar 2022

Amazon

Bengaluru, KA

- Built Java-based server-side functionalities with RESTful API's for a vendor-facing portal, leveraging ORM and API Gateway to **improve response times by 30%** via AWS API Gateway and Lambda.
- Integrated a traffic-shaping tool into a vendor-facing application, optimizing resource protection and reducing server costs by **20%** by filtering bad actor traffic.
- Optimized Java services with AWS profiling tools, identifying and resolving performance bottlenecks.

EDUCATION

Sathyabama Institute of Science & Technology

May 2016 – Jun 2020

Bachelor of Engineering (Computer Science & Engineering)

Chennai, TN

- CGPA:** 8.59/10.0
- Personal Projects:** Email To-Do - [\[GitHub\]](#), Sathyabama Official - [\[GitHub\]](#), News Scraper - [\[GitHub\]](#)

KEY PROJECTS & CONTRIBUTIONS

- Built a Seller Payment Resolution Chatbot using AWS Lambda (**SPAC Hackathon 2023**).
- Supported Seller Repayment Mobile App utilizing AWS EC2 (**SPAC Hackathon 2022**).