Tarun Kumar Reddy Velagala

✉ tarunvelagala@gmail.com   📞 +91 7702233677   🌐 tarunvelagala.github.io   in linkedin.com/in/tarunvelagala

CAREER 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, Typescript, HTML, CSS

Frameworks & Tools - Git, REST API, Micro-services, CI/CD, ReactJS

Amazon Web Services (AWS) - ECS, SNS, SQS, Lambda, S3, Glue, App Config, Athena

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

Testing Libraries & Observability - Junit, Mockito, TestNG, CloudWatch

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.
- Enhanced onboarding processes for an internal data-sharing platform, purging **50 TB** of seller data and integrating **5** critical services.
- Migrated a Balance Tracking Management service to a Java-based microservice on AWS ECS and RDS, launching payment corrections with **3 RPS** and developing integration tests 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 REST APIs for a vendor-facing portal, leveraging ORM 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

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**).
- **File Scraper** - Flask app that scrapes verified URLs and documents from websites. [GitHub]
- **News Scraper** - Flask app that scrapes technology news on software and gadgets. [GitHub]
- **Email To-Do** - Developed a Firebase-based task management app with notifications. [GitHub]