TARUN VELAGALA

Software Application Engineer II

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PROFESSIONAL SUMMARY

Software Application Engineer with **5 years of experience** in backend development, cloud computing and scalable systems. Skilled in optimizing performance and building high-availability solutions with AWS and Java.

SKILLS

Programming Languages: Java, Python, SQL, HTML, CSS, JavaScript
Frameworks & Tools: Git, RESTful API's, Microservices, CI/CD, ETL (Extract-Transform-Load), Spring (Basic)
Testing & AWS Cloud: EC2, ECS, SNS, SQS, Lambda, S3, Glue, RDS, CloudWatch
Databases: DynamoDB (NoSQL), Redshift (PostgreSQL)
Testing Libraries: JUnit, Mockito, TestNG

WORK EXPERIENCE

Software Application Engineer II   Oct 2023 – Feb 2025
Amazon   *Bengaluru, KA*

- Designed and implemented disaster recovery components for a Data transformation engine that reduced operational overhead by **20%** and eased migrating **5** ETL data pipelines with self-service onboarding.
- Led the migration of Redshift private subnet migration **(2.6 PB data)** using AWS and Python, ensuring **100%** data availability across **4** services and reducing down time risks.
- 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 ECS and RDS, launching payment corrections with **3 RPS** and developing integration tests via TestNG.

Software Application Engineer I   Apr 2022 – Sep 2023
Amazon   *Bengaluru, KA*

- Architected, deployed a high-availability RESTful APIs and mentored interns for a Seller Payments Tracking Service that handles (**100K daily visits, 15 RPS**), boosted query performance by **30%** and seller satisfaction.
- Spearheaded dataset migration across teams to an upgraded data warehousing system and improved **25%** analytics capabilities.
- Engineered monitoring and integration testing using TypeScript, CloudWatch and TestNG for a Seller Payments Data 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.

Application Support Engineer II   Apr 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 15%** through 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 using AWS profiling tools and identified gaps and improved the system performance by **10%**.

EDUCATION

Sathyabama Institute of Science & Technology   May 2016 – Jun 2020
Bachelor of Engineering (Computer Science & Engineering)   *Chennai, TN*
CGPA : 8.59/10.0

CONTRIBUTIONS & CERTIFICATIONS

- 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]