

TARUN KUMAR REDDY VELAGALA

SOFTWARE APPLICATION ENGINEER • BENGALURU, INDIA • 7702233677

◦ DETAILS ◦

Bengaluru
India
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◦ SKILLS ◦

Java
AWS (EC2, S3, DynamoDB,
Lambda, SQS, SNS, CloudWatch
etc)
Amazon Redshift / Postgres /
Oracle
AWS CloudFormation
Typescript
Python
SQL
YAML
Google Guice
Docker
Mockito
JUnit
TestNG
MicroServices
CI CD / Git
ETL
Scripting
Monitoring and Debugging
System Design
OOPs
Design Patterns
RESTful Services
Agile
Problem Solving
Distributed Systems



PROFILE

- Software Application Engineer with 4+ years of experience in full-cycle development, production support and system design across diverse domains.
- Proficient in Java, SQL, ETL, scripting, cloud platforms, web technologies ensuring stability, scalability and performance.
- Known for resolving complex technical issues, optimizing systems, and delivering reliable, high-impact solutions under tight deadlines.



EMPLOYMENT HISTORY

Software Application Engineer IV at Amazon, Bengaluru

October 2023 — February 2025

- Designed and implemented recovery backend components and **automation scripts** for a Data transformation engine that **reduced** operational overhead by **20%** and eased migrating **5** ETL data pipelines with self-service on-boarding.
- Led the migration of Redshift private subnet migration using **AWS, Python** and ensured the data availability and reduced the downtime risks across **4** services.
- Enhanced **on-boarding** and **debugging** 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 micro-service** on **ECS** and **RDS**, launching payment corrections with 3 RPS and developing integration tests via **TestNG**.

Software Application Engineer III at Amazon, Bengaluru

April 2022 — September 2023

- Architected **HLD** and **LLDs** and mentored interns for developing high-availability **Java** based **RESTful microservice** for Seller Payments Tracking Service to handle **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 and **enhanced debugging**, **CI/CD** pipeline monitoring and logging .
- Identified and resolved \$5M in seller balance discrepancies through **automated ticketing** and financial **reporting enhancements** using **AWS Athena** and **S3**.

Support Engineer II at Amazon, Bengaluru

July 2020 — March 2022

- Built **Java**-based server-side functionalities with **RESTful APIs** for a vendor-facing portal, leveraging **ORM** to improve response times by **15%**.
- Integrated a traffic-shaping tool into a vendor-facing application, **optimizing** resource protection and reducing server costs by **20%** by **filtering** bad actor traffic.
- On-boarded **3 marketplaces** to a vendor transaction micro-service by **enabling** data ingestion that **increased** transactional volume by **10%** and contributed to **\$53M** incremental funding.



EDUCATION

B-Tech Computer Science and Engineering, Sathyabama Institute of Science and Technology, Chennai

July 2016 — June 2020