

# 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, TypeScript, HTML, CSS, JavaScript

**Frameworks & Tools:** Git, RESTful API's, Microservices, CI/CD

**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. [\[GitHub\]](#)