

TARUN VELAGALA

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CAREER SUMMARY

Results-driven Software Engineer with **5 years** of experience in developing scalable applications, optimizing performance, and maintaining software solutions. Adept at leveraging AWS services, Java, and REST APIs to deliver high-impact solutions.

TECHNICAL SKILLS

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

Frameworks & Tools - Git, REST API, Micro-services, CI/CD, ReactJS (Familiar), Spring Boot (Familiar)

Amazon Web Services - ECS, SQS, Lambda, S3, Glue, App Config, Athena

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

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

WORK EXPERIENCE

Application Support Engineer 4

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 Support Engineer 3

Apr 2022 – Sep 2023

Amazon

Bengaluru, KA

- Developed a scalable RESTful API migration and validation strategy for a seller payments tracking service handling **100K** daily visits, **15 RPS**, increasing seller satisfaction by **4.0 stars**. 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.

Application 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

B.Engg in Computer Science

Chennai, TN

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

CONTRIBUTIONS

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