

# HARITHA SHANMUGAM

## DEVOPS ENGINEER

### DETAILS

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### SKILLS

#### Cloud Technologies

Azure Data Factory, Blob Storage,  
Azure Functions, Logic Apps, Key  
Vault, Azure App Services

#### Big Data & Messaging

Kafka, MQ Explorer

#### Languages & Frameworks

Java, Spring Boot, Bash, REST APIs

#### Containerization

Docker, Kubernetes (AKS), Helm

#### CI/CD Tools

Azure DevOps, Jenkins

#### Monitoring & Logging

New Relic, PagerDuty

#### Databases

Oracle SQL, Microsoft SQL Server

#### Security & Code Quality

Semgrep, Prisma, Snyk, SonarQube,  
SonarCloud

#### Testing Automation

JUnit, Swagger

#### Version Control

Git, GitHub

#### Build & OS

Maven, Unix/Linux



### PROFILE

DevOps Engineer with 2+ years of experience in automating CI/CD workflows, managing cloud infrastructure, and optimizing containerized applications. Proficient in **Microsoft Azure, Docker, Kubernetes (AKS)**, and **Helm** for efficient deployment and management. Experienced with **Azure DevOps** to automate end-to-end processes, and tools like **New Relic, PagerDuty**, and **Snyk** to enhance system monitoring, security, and performance. Focused on improving team collaboration and ensuring secure, high-quality, and reliable software delivery.



### WORK EXPERIENCE

#### Tata Consultancy Services, Chennai

July 2022 — Present

#### Retail Forecasting and Ordering Application

- Contributed to the success of handling high-volume inventory scenarios, such as managing **2.5 million units** during seasonal operations.
- Streamlined winning metric identification for Space Enabled Targets, **saving 4 hours of manual work**, and integrated configuration items for accurate telemetry before **FOP**.
- Implemented a solution for **space and phase change orders with 20+ validation rules** to ensure stock availability and prevent early sales, and Revamped **purchase order processing** to enhance efficiency and eliminate bottlenecks.
- Developed a solution to offer **early insight into target inventory** at location level, enabling corrective actions ahead of peak demand and enhancing operational readiness by 70%.
- Automated recovery mechanisms with efficient code, preventing allocation disruptions and saving the business **\$500,000 annually** during peak demand.
- Enhanced the **Bill of Materials (BOM)** feature for accurate material tracking and refined **vehicle rounding logic** to ensure full truckloads, saving 15+ staff hours weekly and preventing losses from partially filled trucks.
- Designed a **retry mechanism for JDBC issues** during stock allocation, automating retries to minimize delays and manual intervention.
- Resolved Jenkins issues** including AWS DB restore failures, release branch creation, SSH key changes, slave node launch problems, and AWS cloud instance creation.
- Migrated Jenkins from AWS to Azure, reducing costs by **\$40,000-\$50,000 annually** while maintaining workflow efficiency and application performance.
- Collaborated with **7+ cross-functional teams** to integrate supply chain workflows, ensuring smooth system interactions.

### ***Allocation, Scheduling and Orchestration Application***

- Possess end-to-end expertise in the **allocation and scheduling processes for ambient, chilled, and muller products**, ensuring timely distribution.
- Configured **Kafka** for efficient message consumption, wrote JUnit tests achieving **95% code coverage**, and implemented **New Relic** for log monitoring and performance tracking in production.
- Upgraded Java & Spring Boot to **improve security and code quality** using Prisma, Snyk, Semgrep, and SonarCloud.

### ***Exception Management Automation***

- Automated **Azure Data Factory** pipeline testing, creating **non-redundant test cases** with failure alerts and logging results in blob storage and a reference table.
- Optimized **9 GB Order Plan file processing** in Azure Data Factory using file splitting, parallelism, and high-performance formats, improving runtime and meeting SLAs for business reports.
- Performed **DB unit testing for SQL DB objects**, ensuring accuracy, performance, and alignment with business extracts and reports.

### ***Initiative Projects: Reconciliation Power BI Dashboard***

- Developed **ETL pipelines** in Azure Data Factory, referencing **on-prem SSIS packages** for efficient data transformation and migration.
- Optimized cost and scalability **by migrating SQL databases to the cloud**, moving data to Azure Blob Storage, and integrating with **Power BI dashboard**, saving \$15,000 annually.
- Utilized Azure services such as **Key Vaults, Logic Apps (20+ created), and PagerDuty** to ensure secure data management, automate workflows, and enable real-time incident management.

### ***Initiative Projects: Export Clearance Application***

- Proposed and led the integration of the Clearance Document within the internal system, **eliminating reliance on an external vendor by 100%** and streamlining the process, leading to increased profitability for the client.



## **EDUCATION**

**R.M.K Engineering College, Chennai**

Bachelor of Engineering – BE, Computer Science.



## **CERTIFICATIONS & TRAINING**

- AZ-900: Microsoft Certified: Azure Fundamentals
- AZ-204: Microsoft Certified: Azure Developer Associate
- *RELEX* Solutions: Introduction to Partners and Supply Chain Implementation



## **ACHIEVEMENTS**

**Star Performer Award - TCS**

*For excellent performance*

**On Spot Award – TCS**

*For Active Participation*