

# Ashish Kumar Samal

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## Professional Summary

Results-driven software developer with close to couple years of experience in the fast-paced industry. Currently working as a Full Stack Web Developer at a well-established startup, specializing in the Spring Boot framework (Java) for back-end development and Angular for front-end development. Skilled in developing automation scripts using Python, Bash, and PowerShell for organizational efficiency.

## Work Experience

### **Addverb Technologies, Noida, UP.**

*Software Developer, 2022 - Present*

### **NETMEDS & 3PL (WMS client):**

- Developed and enhanced microservices functionality for Warehouse Management Services, including Outbound, packing, and printer. Created interactive dashboards on the UI for improved user experience.
- Implemented a multithreaded order allocation system for efficient order placement.
- Utilized distributed messaging services like Apache Kafka for seamless inter-component communication and logging audits.
- Employed Redis caching as a locking mechanism to avoid race conditions caused by multiple threads. Managed key-value pairs for configurations.
- Abstracted response handling of multiple APIs using a Generic response class for increased flexibility.
- Addressed application-level security issues, mitigating vulnerabilities such as clickjacking. Strengthened security by blocking port binding to prevent Redis exposure over the network. Implemented credential encryption for added protection.

### **SSO:**

- Enhanced the SSO service across multiple projects, incorporating features such as multiple login and logout alerts, session timeout on idle, user restrictions on multiple wrong attempts, user login-logout, and IP auditing.
- Implemented spring JWT authentication mechanism for session authentication.
- Utilized SMTP services (Java) for sending sensitive information, including OTPs and account recovery data.

### **AUTOMATION R&D:**

- Automated the migration of Grafana data dashboards using Grafana open APIs, resulting in significant time and effort savings. Utilized Python for automation.
- Developed automated processes for migrating and updating HR data from the HR portal to Microsoft Teams group and channels, leveraging PowerShell, Bash, and Python.
- Created a bash script for maintaining a history of deployed images on Docker containers for recovery purposes and auditing changes made over time.
- Streamlined the In-house Cortex script by implementing a selection mechanism for microservices deployment instead of manual input.

### **API GATEWAY:**

- ❑ Implemented ServletRequest interfacing for access token filtration (in headers) to authenticate sessions from SSO. Restricted server resource access for unknown domains.
- ❑ Developed a generic response mechanism for all APIs to handle multiple platforms and gracefully handle session timeouts, automatically logging out users on the respective platforms (UI and Android).

#### Stack:

Java (Spring Boot), Angular, Python, PowerShell, Bash, SQL

#### Tools:

Microsoft Azure, Redis, Nginx, Kafka, Jenkins, Android Studio, JMeter

#### Education:

- ❑ Thapar Institute of Engineering and Technology (2018-2022)
- ❑ B.E Computer Engineering (CGPA: 9.0)