

## DEEPAK SHARMA

+91-7206563362  
deepaksharmaforwork@gmail.com

### Employment

SDET	Flipkart	September 2022- Present
<b>DOMAIN:</b> Catalog and Buying Engineering.		
<b>Project - Integration Testing Framework</b>		
<ul style="list-style-type: none"><li>Designed and implemented a robust integrated testing framework for the Catalog Management system at Flipkart, ensuring end-to-end functionality and integration testing.</li><li>Designed the framework keeping the whole catalog in consideration and making it Catalog Management System centric instead of my team - i.e basically a FAT JAR/Library to be utilized by different teams to implement robust integration frameworks. Reducing time and cost for automation within the whole unit.</li><li>Created an integrated flow for catalog management, simplifying product creation and management for sellers through the user-friendly Flipkart website.</li><li>Implemented reliable message queue systems, monitored topics for data flow, and promptly addressed any lag or service downtime.</li><li>Collaborated with cross-functional teams to gather requirements, define testing strategies, and provide clear documentation, contributing to process improvement.</li><li>Developed comprehensive test suites and debugged the pipeline, stabilizing the staging environment for efficient product testing and deployment.</li></ul>		
<b>Project - Client Service For Automation Framework</b>		
<ul style="list-style-type: none"><li>Co-authored the development of a sophisticated service that served as a client and efficiently stored responses for testing purposes.</li><li>Designed and implemented mock APIs, enabling the manipulation of ML model calls and providing customized responses.</li><li>Co-authored in the planning and execution of test scenarios with different teams (dev and product), utilizing the mock service to simulate various real-world scenarios and evaluate system behavior.</li><li>Played a pivotal role in debugging and troubleshooting, swiftly identifying and resolving issues within the client service to maintain optimal functionality.</li><li>Demonstrated strong problem-solving skills and a proactive approach, continuously exploring innovative ideas to enhance the capabilities and performance of the mock service.</li></ul>		
<b>Tech Stack :</b> Java, Python, Kubernetes, Docker, Junit, Kafka, Microservices, Maven, SQL, CI/CD, Shell Scripting		

### EDUCATION

Delhi-NCR	SRM University	June 2013 – May 2017
<ul style="list-style-type: none"><li>BTech in Computer Science Engineering. GPA: 6.9.</li><li>Coursework: Algorithms, Data Structures, Operating Systems, Database Management System, Theory of computation, Architecture, Networking, Computer Programming, Advance OS.</li></ul>		
Sonipat	Jankidas Kapur Public School	June 2012 – May 2013
<ul style="list-style-type: none"><li>(12<sup>th</sup> Standard): CBSE. Percentage: 72%</li><li>Coursework: Physics, Chemistry and Math.</li></ul>		
Sonipat	South Point Public School	June 2010 – May 2011
<ul style="list-style-type: none"><li>(10<sup>th</sup> Standard): CBSE. CGPA: 9.0</li><li>Coursework: Sciences, Social Sciences, Math and English.</li></ul>		

### TECHNICAL EXPERIENCE

#### Projects

- **Built a Backend Clone of Instagram:** Converted requirements to a Minimum Viable Product similar to Instagram's backend. Designed Class structure, use-cases and implemented the APIs to mimic Instagram's backend.
- **Built a web app dashboard for IPL:** A web app to visualize IPL data in a dashboard format built on React. The backend was written using Java under Spring framework and it was deployed on AWS.
- **Personal Assistant Robot:** A robot built for monitoring the environment using cameras and ultrasonic sensors. It was built using RaspberryPi and programmed using Python, IoT
- **Java Collections Clone:** Implemented Stacks, Queues, LinkedLists, HashMap, ArrayList, Priority Queue, Trees, Binary Search Trees and Graphs in a backend API like Java's collections.

#### MOOCs

- **Java:** Beginner to Advanced
- **Agile Methodology:** Software development using Agile Methodology.
- **GIT:** Beginner to Advanced.
- **SQL:** Relational Databases, designing schemas and querying.
- **JAVA Development Environment:** Building and deploying Java Applications using Spring boot.

#### Languages and Technologies

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- Languages: Java (A); Python(I); SQL(I);JavaScript(I). [Note: A=Advance, I=Intermediate, B=Basic]

#### Software Engineering Suite:

- *Version control:* Git, BitBucket; GitHub; *Environment tools:* Eclipse, Visual Studio, J2EE, Maven;
- *Backend Engineering:* Spring Boot, MySQL, AWS, JShell; *Frontend:* HTML, CSS, React,JavaScript;
- *Programming Paradigms:* Object Oriented Programming, Functional programming.
- *Methodologies and design:* Agile Methodology; Low level design.
- Testing; Documentation and Presentation.
- **Theoretical Computer Sciences:** Data Structures, Algorithm Design and Analysis, Distributed Systems, Discrete Mathematics, Problem Solving.