

# Seetharaman Venkatesan

## Current Position:

Lead Engineer

## Company:

Target Corporation

## Skills

- Digital transformation and Modernization, Agile Practices.
- Functional and Object-Oriented Programming.
- Design Patterns.
- Distributed System Engineering.
- Development and Deployment Automation.
- Performance Tuning, Logging, Monitoring and Alerting
- Kotlin, Java, Groovy, JUnit, Spock, TDD.
- Spring boot, Docker, Kubernetes, Kafka, Postgres, Mongo, Elasticsearch, Redis, Kibana, Graphana, Hadoop, JMeter.

## Strengths

- Experienced in training junior and experienced engineers.
- Proven problem-solving skills.
- Rapid skill adoption.
- Public speaking, instructing and coaching.

## Education

### Master of Science

Computer Engineering  
Illinois Institute of Technology  
Chicago, IL, USA.

### Bachelor of Engineering

Electrical Engineering  
Anna University  
Chennai, TN, INDIA.

## Contact

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<https://www.linkedin.com/in/svenka/>

# Professional Profile

A Leader with 13+ years of industry experience, with a blend of proven technical competency, problem-solving acumen and captaining teams; with an ability to translate product vision and strategy into robust, stable, scalable applications, to solve critical business problems.

An Engineer capable of creating software from scratch, and also take existing established systems and distil them to their essential form, eliminate unnecessary system complexity and reduce the number of service components, while improving maintainability and evolvability.

A Continuous Learner, who is motivated to understand new business domains, and the challenges they pose; while methodically learning and implementing the appropriate engineering solution(s) to address them.

Worked in 3 different business domains at Target.

## Project | Role

*Stores Reverse Logistics | Lead Engineer [Team Leader + Architect] current*

### Description:

- Designed a 'centralized common capability' module, spanning across stores and supply-chain domains, for 'outbound logistics', while aligning on similarities and accommodating nuances in workflows, and eliminating complexity and duplication.
- Architected a scalable, extensible and reusable 'ecosystem' using 'microservices' and 'event driven' architecture, while building 'measurements/observability' frameworks to monitor system performance and stability.
- Built platform services [core and tenant apis], implemented 'service choreography pattern' and 'circuit breaker pattern' to interact/integrate with critical systems like 'items', 'item locations', 'inventory' and 'finance'. This product had multiple clients [POS and hand-held devices at ~1800 stores, Return Centers and Distribution Centers].
- Led performance tuning efforts for services, by decoupling workflows, laying down 'data purge' strategies in place, enforcing query and index optimizations, to achieve optimal SLA.
- Drove project planning, resource management, engineering execution, delivery, user adoption and production support.

## Project | Role

*Assortment Financial Planning | Lead Engineer [Team Leader + Architect]*

### Description:

- Built a 'ledger/journal' system, to enable forecasting for 'in-season' and 'pre-season' unit financial planning.
- Rearchitected a complicated planning system which was an 'application monolith'; understood its 'data granularity and security/visibility', 'scalability requirement' and 'integration patterns'.
- Constructed an ecosystem with well-defined service contexts and boundaries. Led the creation of 'core services', 'tenant services', 'workflow services' and 'integration services'; and delivered 'testability', 'maintainability', 'scalability' and enabled faster, frequent, safe and stable 'deploy-ability'.
- This directly resulted in 'speedy delivery of new features', and led to drastic improvement in 'user satisfaction scores' within 2 quarters.

## Project | Role

*Price Management and Execution | Lead Engineer [Individual Contributor]*

### Description:

- Built and contributed towards the digital transformation and modernization of Target's first omni-channel price management and execution eco-system.
- Architected the 'price item grouping' system, to ripple omni-channel price changes for items. This automates ~20Mil finalized price changes, with minimal touch-points.
- Built the 'competitive everyday low-price execution engine' for items sold at stores and online.

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## Employment History

**June 2015 - Present**

**Employer:** Target Corporation

**Position:** Lead Engineer

**Domain:** Stores, Merchandising, Pricing

Target Corporation is an American retail corporation, headquartered in Minneapolis, Minnesota. It is the 8th-largest retailer in the United States. It has been providing an enjoyable omni-channel shopping experience to its guests all over the United States.

**March 2013 – June 2015**

**Employer:** Monsanto Company

**Position:** Sr Software Engineer

**Domain:** Biotechnology – Trait Management

The Monsanto Company was an American agrochemical and agricultural biotechnology corporation founded in 1901, headquartered in St Louis, Missouri. In 2018, it was acquired by Bayer as part of its crop science division.

**September 2011 – March 2013**

**Employer:** Liberty Mutual Insurance

**Position:** Software Engineer

**Domain:** Auto Insurance and Car Insurance

Liberty Mutual Group is an American diversified global insurer and the third-largest property and casualty insurer in the United States. It ranks 75th on the Fortune 100 list of largest corporations in the United States based on 2018 revenue.

**August 2010 – September 2011**

**Employer:** HomeDirect USA

**Position:** Engineer

**Domain:** Logistics and Supply chain

**Jan 2010 – August 2010**

**Employer:** Michigan State University

**Position:** Engineer

**Domain:** Quali Financial Systems

**May 2008 – August 2008**

**Employer:** Dow Jones & Company

**Position:** Engineer Intern

**Domain:** Data Services - Extraction Transformation and Loading of Data

**May 2005 – August 2006**

**Employer:** Robert Bosch India

**Position:** Engineer

**Domain:** Automotive Electronics and Navigation Systems

**November 2004 – May 2005**

**Employer:** Robert Bosch India

**Position:** Engineer Intern

**Domain:** Automotive Electronics and Navigation Systems