

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, 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

Mobile:

(312) 671-1307

Email:

venkatesan.seetharaman@gmail.com

LinkedIn:

<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 system 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]

Description:

- Lead efforts to design a 'centralized common capability' across stores and supply chain, for 'stores outbound logistics', aligning on similarities and accommodating nuances in workflows, while trying to eliminate system complexity and duplication.
- Architected the solution into a scalable, extensible and reusable 'ecosystem' using 'microservices' and 'event based' architecture, and laying down 'measurements/observability' to monitor the system.
- Built platform service [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 integrated with multiple clients [POS, hand-held devices at store(s), CRC and DC].
- 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, from the front.

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 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.
- Contributed towards building the 'price rules engine' to recommend 'competitive everyday low price' for store and digital items.

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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