

Seetharaman Venkatesan

Current Position:

Lead Engineer

Company:

Target Corporation

Skills & Strengths

- Digital transformation and Modernization ~ DevOps ~ TDD ~ Agile Practices.
- Translate product vision to usable software.
- Strategist ~ Tactician ~ Collaborator ~ Thought and Engineering Leadership.
- Event Storming for product Discoveries.
- Coaching and Mentoring junior and experienced engineers.
- Interviewing Talent.
- Hands on Technologist: Microservices ~ Event Driven Architecture ~ Design Patterns ~ Distributed System Engineering ~ Design Optimization ~ System Automation ~ Performance Tuning ~ Observability ~ Monitoring.
- Hands on Developer: Kotlin ~ Java ~ Groovy ~ Junit ~ Spock ~ Spring boot ~ Docker ~ Kubernetes ~ Kafka ~ Postgres ~ Mongo ~ Elasticsearch ~ Redis ~ Kibana ~ Graphana ~ Hadoop ~ JMeter.

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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Professional Profile

A Team Leader with 13+ years of industry experience, who believes in creating strong engineering teams - through structure, culture and diversity, in order to deliver and maintain successful products.

An Engineering Leader 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 and secure applications.

Project

| Role

Stores Reverse Logistics | Lead Engineer [Lead + Architect] current

Description:

- Drove technical vision and strategy discussions by partnering with Product Owners/Managers/LE's; to understand implications and assumptions around product value, to make sure technical direction supported Objectives & Key Results (OKR's), and long-term product vision.
- Lead efforts in Product Discovery activities; challenging feature scope and acceptance criteria; negotiated prioritization and delivery timelines to stay true to the OKR's and business roadmap.
- Collaborated with Managers/LE's [across geo locations] to understand existing legacy architecture and systems behaviors; and recommended building scalable, extensible and reusable 'ecosystem' using 'microservices' and 'event driven' architecture, while building 'measurements/observability' frameworks to monitor system performance and stability.
- Coached the team to have an agile mindset, challenging them to understand the requirement(s); helping them foresee cross-dependencies/roadblocks and visualize the full scope of work; while enabling the team to 'self-organize' through communication, collaboration and ownership.
- Shielded the team from distractions and helped them stay on course with delivery, while encouraging 'hack days' and 'learning days' for innovation.
- Ensured measurements/observability/monitoring of system capacity and performance, while also being accountable for system stability, disaster planning and recovery.
- Ensured team members received proper training and learning experiences to support career growth; and addressed individual performance concerns with honesty and empathy.

Project

| Role

Assortment Financial Planning | Lead Engineer [Leader + Architect]

Description:

- Lead efforts related to project planning, resource management, engineering execution, user adoption and production support.
- Drove product discovery activities and event storming sessions, to re-align on product vision.
- Rearchitected a complicated planning system which was an 'application monolith'; understood and documented its 'data granularity', 'security requirement', 'scalability requirement' and 'integration patterns'.
- Designed 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'.
- Built platform microservices [core and tenant apis], implemented 'service choreography pattern' and 'circuit breaker pattern' to interact/integrate with critical systems
- 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.

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