**Vinay Singhal**

+91-7827359378

# [vinaysinghal.vs@gmail.com](mailto:vinaysinghal.vs@gmail.com)

**Summary**

* Around 12 years of global experience in Software development, design and integration across diverse industries. Key role as a Solutions Architect and Performance engineer and worked with problem solving capabilities. Currently, working as a **Senior Engineering Manager** with **Delhivery** India’s number one ecommerce logistics company**.** Previously worked for clients like Biggest Giant of Mortgage Backed Securities, Investment Banks, and Biggest Asia E-commerce platforms.
* **Certified AWS Solution Architect – Professional**
* **Key Skills - Docker, Kubernetes, Kafka Clusters, Kstreams, Ktables, AWS, EC2, Auto-scaling, Athena, Dynamo, S3 Storage Services, AWS lambda, Data-Pipelines, Elastic Load Balancers, Data Shards, Distributed Caching, DB Read-Replicas, ACLs, VPC, Region-Based Services, Scatter-Gather Patterns, Data Structures, Algorithms, System Designing, Distributed Network and Design, Problem solving, Memory Management, Performance engineering and tuning, Concurrency, Multithreading**, **transaction Management, Java, JMS, Tibco, XML, Micro-services, AWS Solutions and Designing.**
* Great exposure to move entire on-premises application to cloud like AWS.
* Drive the long-term technical vision for the team and organization, Design and build highly reliable, available and scalable services with a platform focus. Work on cutting edge technical solutions that solved Business problems.
* Make informed Build vs Buy decision, Overlook and be responsible for the components built, right from its design to coding and operations, create platforms for components such as libraries, utilities and services, and promote its reuse.
* Be accountable for large technical deliverables and execute it an exemplary manner, Conceptualize, develop and quickly prototype. Mentor and guide team members on everything from structured problem solving to the development of best practices.
* Closely work with Business Leaders and Corporate Functional Leaders to understand their challenges and provide Strategic IT Solutions
* Good financial domain knowledge also appeared **for CFA Level 1 Examination** and Scored – Band 10
* **Visa Status** – Valid USA visa.

# Work Experience

**Delhivery,** Mar 2019 to Present

*Senior Engineering Manager*

***Product****: FirstMile & LastMile*

Delhivery is India’s number one ecommerce logistics product based company, working as a Senior Engineering Manager and handling the business of entire FirstMile and LastMile with technology team of size 40 people. Directive is it to continuously build the new features and move to latest technologies and groom up the team. Clear vision on the roadmap of product and solutioning n architecting and get the features developed with the team. Also working directly with infra team, support team, devops team and operations team to make the product live 24/7 and efficient.

***Technologies used -***

* Kafka Clusters, KStreams, Ktable, Docker, Kubernetes, Elastic Container Services, AWS, EC2, Auto-scaling, S3 Storage Services, Server-less technologies, Elastic Load Balancers, Data Shards, Distributed Caching, DB Read Replicas, Algorithms, Data Structures, Multithreading, Performance Tuning, Collections.
* AWS-SQS, Step Functions, SNS,
* Python, Django
* Postgres, Redis, SQL, MongoCDC, Athena, DynamoDB
* Nginx, Codacy,, CI/CD Pipelines, GIT

**Sapient Corporation,** Dec 2010 to Feb 2019

*Solutions Architect and Team Lead*

***Project****: FannieMae and FreddieMac* ***(May 2014 to present) Location USA***

Started POC in 2014 for joint venture of FannieMae and FreddieMac and Design and Architect entire platform to on-board Millions of Loans and provided End to End solutions and designing entire application which has been Live on 2017 for Freddie and Fannie is coming up in 2019. Act a role of solutions architect and performance engineer and take up the platform from scratch to running application. Also had great exposure to move entire on-premises working application on AWS cloud.

***Technologies used -***

* AWS, EC2, Auto-scaling, S3 Storage Services, Server-less technologies, Elastic Load Balancers, Data Shards, Distributed Caching, DB Read Replicas, Algorithms, Data Structures, Multithreading, Performance Tuning, Collections.
* AWS-SQS, JMS, XML, XSL, XSD, Spring Integration, Guava, Spring JDBC
* Oracle, PL/SQL
* Tomcat, Jenkins, Sonar, CI/CD Pipelines, GIT

***Project****:* ***Fidelity Investments (*Dec 2010 to Apr 2014*)***

Create a simple structure for ISA plan years by bundling all plan years within a single account and decrease system development complexity and simplify the operating model to allow growth capacity and a potential decrease in the related Run the Business costs.

Reduce operational processing time and cost in multiple departments.

Improve the customer investment experience by creating a more transparent structure, simplifying the switch and redemption process, reducing call times for customer queries and dealing and reducing the amount of paper sent

***Technologies used -***

* JDK1.6 , J2EE1.4, Multithreading, Performance Tuning, Collections
* Struts, XML, XSL
* Oracle ,PL/SQL

**TechtreeIT Systems-** Oct 2008- April 2010

***Client*** - Indian Railway Catering Tourism Corporation

***Project*** - Online Railway Reservation System

***Duration*** -Oct 2008 – April 2010

***Role*** – Software Engineer

The Broadvision API based application provides online ticket booking, cancellation and checking of ticket reservation status. It also includes information about train schedules, availability of tickets and travel planner. This site connects with Indian railway database and over 25 banks links using webservices.

***Technical aspects -***

Application was based on Struts framework and was deployed on BroadVision application server. The business layer composed Struts, Web Services, Design Patterns, Serialization and Multithreading. All IRCTC services are exposed for business to business communication and linked with 25 banks payment gateways.

*Key Tasks*

* Sitting at client site, prepared high level and low-level system design UML diagrams (class diagrams, sequence diagrams).
* Responsible for implementing the Main Site enhancements and Web Services.
* **Design code using various java multithreading, serialization and J2EE design patterns e.g. Singleton, Decorator, Factory to optimize the performance of the application**
* **Implemented the report generation module using the Apache POI API.**
* Responsible for writing the SQL queries for the report module and admin applications.

***Technologies used -***

* JDK1.4/1.5, J2EE1.4,
* Struts, XML, XSL
* Oracle, PL/SQL
* Broad Vision, Tomcat

**Infogain India**

***Client*** - Inter Asset System

***Project*** - Tracking System for Container Transport Industry

***Duration*** -May 2010 – Dec 2010

***Role*** – Software Engineer

**Reliance Infosolutions Pvt Ltd,**

***Client-*** Reliance Retail Ltd

***Project*** - Online Vendor Registration

***Duration*** -Aug 2007 – Sep 2008

***Role*** - Software Engineer

***Technical aspects -***

**The main application for one of India’s largest retail chain provides utility to all vendors for registration and generates sap code after MDM approval. Vendors have to follow full registration lifecycle before supply their goods.** **Application was based on Struts framework and was deployed on tomcat application server. The business layer composed of Struts, java multithreading and design patterns like MVC.**

*Key Tasks*

* **Used simple Struts Validation for validation of user input as per the business logic, and initial data loading.**
* Responsible for writing the stored procedure for the report module.
* Prepared the class diagrams and sequence diagrams.
* Responsible for writing the unit test cases.
* Usingvarious design patterns, multithreading and Collections API

***Technologies used -***

* JDK1.4, J2EE1.4
* Struts, JDBC2.0, XML, XSL
* Oracle
* Tomcat

**Education**

Bachelor of Engineering Computer Science India, 2007 - 70%

**Certifications**

Certified AWS Solution Architect Professional - 2018

Certified AWS Solution Architect Associate - 2018