

Technology agnostic software artisan who encourages self by consistently delivering business values. Convinced that “The whole is greater than the sum of its parts”. Enjoys practice of continues learning and mentoring. Fond of science and technology.

# Himanshu Trivedi

Hands on Architect &  
Delivery Leader



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- 20+ years of experience in software engineering in different roles. Worked with both type of software engineering organizations; software services firms and software product firms.
- Knowledge of varieties of business domains; logistic, retail, education, construction, healthcare, and manufacturing.
- Working in a role needing to provide holistic leadership; people, process, and technology for more than a decade.
- Cultivated agile mindset in many teams and have long experience of working with Scrum methodology.
- Delivery oversight to more than 50 members, distributed in 7 or more teams for different clients. And guiding and leading teams to continues improvement.
- Member of a leadership team responsible for staffing projects, oversee resource utilization at project level and at service unit level and monitoring profitability of the service unit in a software services firm.
- For multiple years, responsible for recommending and communicating monitory appraisals for about 50 associates.
- Actively working with sells team for discovering and RFP phase for understanding high level requirements, solutioning based on high level requirements, estimating the opportunities.
- Architected and developed enterprise grade, scalable and resilient; cloud-based and hybrid applications. Focused primarily on Architecting Azure based solutions.
- Designed and developed multiple software solutions needing distributed computing and event driven architecture using different messaging platforms.
- Hands-on experience of varieties of architecture patterns including Microservices and SOA.
- Actively doing full-stack development primarily in Angular, ASP.NET Core, SQL Server stack.
- 15+ years of experience working with .NET frameworks. Before .NET, I worked with Delphi, C++, FoxPro for multiple years.
- Exposure to following platforms and frameworks by working one or couple of projects using them; Java, Scala, Python, Node.JS, Windows CE

## Few of my favourite books

Clean Code: A Handbook of Agile Software Craftsmanship

The Passionate Programmer: Creating a Remarkable Career in Software Development

The One Minute Manager

## Few of recent projects

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### Healthcare Service Quality Solution

**One-liner:** Architected and developed Apache Spark and Azure HDInsight based bigdata software for a organization from healthcare domain.

**Major technologies:** Azure HDInsight, Spark, Scala, Azure App Service, .NET Core, Angular, Hive, Parquet file format, Azure SQL Server

**Detail:** [ONC](#) certified product for submitting MIPS eCQM reports (measures). Product built for a US based Healthcare start-up targeting to serve multiple healthcare facilities for submitting their eCQM and Registry measures. Product required to support multitenancy, considering that start-up owning the solution was targeting to serve more than 50 healthcare facilities. By refer large dataset of patients' data, it generates scores for assessing performance of services provided to Medicare and Medicaid patients. Measures that is rules for scoring are defined and published by [CMS](#) and are to be submitted by all healthcare service providers, severing patients falling into category of Medicare and Medicaid. Based on scores, healthcare facility will receive payments from US government.

Considering ruleset of the eCQM measures changes every year, solution built with support for DSL for externalizing rules, hence product can be updated easily year-on-year, also by team that has relatively less understanding of programming. To generate accurate output, solution needs to churn large amount of healthcare data using Apache Spark over Azure HDInsight cluster.

### Azure experience

Cost estimation and Cost Analysis

Multi-region Highly available, secured, and scalable Architecture

Good understanding of commonly consumed Services like; App services, Azure SQL, Storage Accounts and Azure Functions, Service Bus, Azure VMs and networking components like VNET, NSG, Network Interface etc

Also used: Traffic Manager, API Management Service, HDInsight Spark and HBase, LogicApps, Azure Bot Service

### Last-mile delivery

**One-liner:** Co-architect of enterprise grade complex and large software solution for a fortune 500 company from Logistics domain.

**Major technologies:** ASP.NET, Angular, jQuery, SQL Server, RabbitMQ, PC\*Miler for miles calculation and pricing, Voxeo for IVR

**Detail:** Organization sponsoring the project was division of a fortune 500 company, based in US. This enterprise scale project was about building solution allowing to manage complete lifecycle of last-mile delivery of shipments with end-to-end visibility and tracking of the package. Most clients had shipment job requiring additional services beyond basic delivery, requiring specialized skill to perform installation along with shipment hence needing to do fleet management.

I worked on the project for about 5+ years out of which 3+ years in capacity of member of architecture council for the project and for about 2 years as technical lead for multiple teams doing implementation. For about a year, I was providing technical leadership to 40+ team members distributed into 6 different scrum teams. While being on project, I also took part in activities like project roadmap sequencing and estimation, requirement grooming, defining architecture, defining releases, and was supplying architecture and design guidance to teams, doing technical implementations and integrations of components, performance troubleshooting and tuning of the software.

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## Mass casualty triage, evacuation, and large-scale event tracking system

**One-liner:** Co-architect of highly configurable, performant and robust mobile application for tracking patients in situation of emergency evacuation.

**Major technologies:** .NET Compact framework, SQL CE Database. Full .NET framework for Windows Application

**Detail:** US based client of this project was a product company selling their product for tracking people in the situation of emergency evacuation. Clients of the product were fire departments and police departments.

I worked on mobile application, a part of the product suit. Considering the application needed to be used in emergency evacuation by authorities for keeping track of people being evacuated and keeping record of medications being provided to them, application was expected to provide very high resilience and performance. At the same time considering it being a product targeted for different customers, expected to provide high level of customization including ability to design data entry forms based on the needs of the customer. We had used advance strategies like dynamically generating executable code from defining of form layouts described in xml. Application needs to be integrated with varieties of pluggable attachment to mobile device like magnetic strip reader, barcode reader.

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### AWS service used

- Beanstalk and EC2
- S3
- Lambda App services
- SNS

## Dairy Dashboard

**One-liner:** Architect of data analytics application for Dairy farms.

**Major technologies:** ASP.NET, SQL Server

**Detail:** This project was product for sponsoring company who did not have direct experience in building software products. SpiderLogic was their technology partner for engineering this product. Solution was targeted for the customer owning a dairy farm in US. Dairy industry has many software providing transactional view to a specific area of the business. Dairy Dashboard project was about providing integrated view of several aspects of the business through which dairy owners can take holistic view of business through charts and reports from one single software. Product was also providing view, highlighting co-relation of data belonging to different area of the business.

I worked on building many ETL processes through which data analytics engine was seeded data, and this includes capturing data through screen scrapping and website crawlers. Worked on data analysis engine and building visualization for the data. I also built first HTML5 based mobile app supporting feature working offline data getting synchronised when user comes online and logs into the software.

## Organizations I worked with

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### Wipfli India (aka SpiderLogic India), Pune

May 2005 – Present

I join as Technical Leader and graduated to Lead Software Architect in SpiderLogic. SpiderLogic allowed me to own many key responsibilities. At project as well as at organization level, within the realm of software development and delivery. While allowing to play key role as delivery oversight, SpiderLogic also allowed me to stay hands on engineer who regularly taking part in coding activities.

During my tenure at SpiderLogic, I worked as Software Architect and Solution Architect in many projects including those that were product for the customers. While working in SpiderLogic, I also worked as Architect for enterprise scale projects including a fortune 500 company. Built multiple unconventional applications like report designer and software needing DSL. Worked on multiple integration projects and projects targeted for cloud. I also received exposure to verities of domain including logistic, retail, education, healthcare, and manufacturing.

Some of the added roles that I played beyond software architect allowed me to be taking responsibility for taking final technical decision in recruitment, participating in the decision of setting up and revising remunerations, participating in resource allocations to the projects and others key area of running a software company.

### Ruksun Software Technologies, Pune

Nov 2003 – May 2005

India based software solution provider, also having products in mobile technology. I was one of the key .NET leaders in the organization helping in evangelizing .NET in organization, also trained many members on .NET. Worked for a school management system in U.K. through which gained experience of collaborating with offshore team while being onshore.

### VMF Soft Tech, Ahmedabad

Oct 2000 – Nov 2003

Worked on multiple Delphi and C++ projects. Worked on first web app and .NET applications. Gained experience of working on large scale software for client Sardar Sarovar Narmada Nigam Ltd.

### Omega Software Solutions, Rajkot

Dec 1999 – Oct 2000

I was co-founder of the company, and delivered multiple software for two cloth retailers, a medical store, and many gas agencies in Rajkot.

### Reliable Systems Corporation, Rajkot

Jul 1996 – Dec 1999

Join organization as fresher and graduated to Sr. software engineer for their software development division. Reliable Systems Corporation was offshore lab in Rajkot, India of US based product company named Reliable Group.

## Education

Post Graduate Diploma in Computer Applications  
from Saurashtra University in Jul 1996

Bachelor of Commerce  
from Saurashtra University in April 1995