



Electronic City Phase I
Bangalore – 560100

SATENDRA SINGH

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SUMMARY

EMPLOYMENT- 6+ YEARS OF WORK EXPERIENCE

Senior Software Developer

Travel Republic Pvt. Ltd.

*Oct'13 – Present
(4 Years and 8 Months)*

At Travel Republic Pvt. Ltd, I am currently engaged with the **API and Platform Team (UK)** where we provide various solutions to the development of optimal solutions to aggregate various flights, hotels, cars, cruise and attractions providers and support the availability, details and booking on Travelrepublic (<http://travelrepublic.co.uk>) website. We at travel republic consistently get challenges to compete with the market by following the agile development with the release period of 5 days.

Key Responsibilities:

- Develop and manage various products APIs to provide core platform for **Travelrepublic, Emirates and Dnata** to sale travel products.
- Design and develop the solution to integrate new suppliers using their API (Soap, XML, NVP and REST) or Web scrape.
- Developing the micro services by understanding the business concern and separating various services.
- Taking ownership in designing new solution to optimize the suppliers' integration.
- Bug resolution, unit testing.
- Implemented the solution to integrate the PayPal payment option in Travelrepublic website.
- Share knowledge about new technologies and design architecture, given sharing session about "Payment Systems" and Inversion of Control and Dependency Injection.
- User Account Management Service, authentication and authorization of APIs.
- Booking Service to create booking and post booking process.
- Participate in requirement gathering and design and development.

Technologies Used:

- NodeJs, AngularJs
- .Net 4.5 C#5.0, WCF. ASP .Net MVC and WEB API.
- Java and Spring MVC, RESTful Web Services
- SQL Server 2012.
- RabbitMQ as message channel.
- MongoDB as Session storage and event source data.
- Grafana for Metrics.
- Git and Mercurial as source version control.
- GoCD for continuous delivery.
- Octopus Deploy for distributed deployment.
- CruiseControl for continues integration.
- XUnit for test project.

Co-Founder

Engineering Head and Software Architect

Voyce System

(Acquired By Exotel)

Nov'13 – March'15

(1 Year and 5 Months)

Voyce system was founded by the group of four people and my role was to head the Engineering, design, architect and develop the solution.

It is an Intelligence **Feedback System to Understand Dinning Behaviour** (<http://myvoyce.in>).

Voyce is an intelligence system being designed to take feedback by understanding the current mood of the person who visited any restaurant for dinning. It analysis the feedback and generated real-time mobile notification to suggest the owner/manager of the restaurant as what action one should take against the customer experience. It takes these decisions based on the learning it does over the period of the time.

It also provides the analytic dashboard where one can get the current mood of the restaurant and several other analytic like how the restaurant is progressing during a period and predicts what can be experience, a customer may face.

It also analyses the sentiments of the customer by analysing the comments given against any restaurant dining experience.

Key Responsibilities:

- Designing the architecture and solution.
- Managing the development operations on AWS and “Google App Engine”.
- Translate business requirements to functional design.
- Work on the UI and ensure enhanced user-experience (UX).
- Requirement understanding and designing the optimal solution.
- Pre-delivery and Post-delivery client relationships and product support management.

Technologies Used:

- Java Struts 2.4, JAX-RS for Rest API.
- Google DataStore as Database.
- Google Cloud Messaging for real time notification and feeds on website and mobile.
- Google APP Engine as PAAS cloud for service deployment.
- Memcache for distributed caching.
- Angular JS.
- Android using Java and Cordova.

Software Developer

Kalido International LLC.

Apr’13 – Oct’15

(6 Months)

Kalido's Ware house and data management full suite of products allow companies to manage their data as a shared enterprise asset, better understanding which data assets have value and how to best use them across all their business processes.

Key Responsibilities:

- Adding new functionality to existing product and designing business solution for the customers.
- Coming up with new features that can make the data management more efficient and cost effective.
- My main role was to handle the master data management enhancement, where I mainly worked on data cleaning and fuzzy logics to find the similarity between the transaction and reference data to detect the duplicate data.
- Kalido got acquired by Silver-Back and they shutdown the India operation in 2013.

Technologies Used:

- C++, VC++, C# and Java.
- SQL Server 2012, Oracle 11g, Netezza and Teradata.
- JBoss Application Server.
- JUnit test framework.
- Business modelling.
- Perforce as source control.
- Data warehouse fundamentals.

System Engineer

Infosys Pvt. Ltd.

Jul’11–March’13

(1 Year 7 Months)

ELDA (eConfig Library Data Assembler) for Boeing 787 Dreamliner.

This provides configuration management, authoring and assembly for all reusable library data that is required by eConfig to configure a customer airplane. It accepts data from disparate sources and provides user interfaces to link the option, engineering features, light geometry and multi-media data together into an integrated whole for release to the application and data deployment sub-system.

Key Responsibilities:

- Adding new functionality to existing application.
- Creating the Technical Design Document based on the Functional Document for the major changes in application.
- Developing the application in such a way that it does not affect the existing functionalities.
- Designing and developing of new functionalities in the application.
- Consolidation of development (various/programming) parts developed by different developers.
- Resolving issues and defects at the early stage of development.
- Maximize the use of existing methods and procedures.
- Understanding the requirement and creating Unit Test Plan for the complete application.
- Understanding the requirement and anticipating the problems which can arise at the time of development.
- Doing Unit Test to ensure that application is meeting with the client's requirements and time limit.
- Ensure procedures, methodologies and best coding practices are to be implemented and followed.
- Creating documents which will help others to understand the application better.
- Additional Assignments at Infosys, Performance tuning.

Technologies Used:

- .Net 4.0 Windows using C#.
- SQL Server 2012, Oracle 11g, Netezza and Teradata.
- JBoss Application Server.
- JUnit test framework.
- Business modelling.
- Perforce as source control.
- Data warehouse fundamentals.

EDUCATION

**M.S By Research
in
Data Science**

**International
Institute Of Information
Technology Bangalore**

Aug'17-Present

Joined as the research student in research team to pursue research at the Graphics-Visualization-Computing-Lab at IIIT-Bangalore, we work in the domain of spatial computing. Our focus in research and development in visual analytics, GPGPU (general purpose GPU computing) and graphics. Our interests lie in developing interdisciplinary data models and techniques for visual analytics, involving second-order tensors and matrices for complex networks, spatio-temporal and multivariate data. We work on applications in geosciences/ earth observations, small-world networks, biological networks, public health data, and others. We actively work with domain experts, such as oceanographers, GIS practitioners, survey data analysts, biologists, and medical doctors, in devising novel solutions.

**Bachelor Of Technologies
Computer Science.**

**United College Of Engineering &
Research.(UCER),Allahabad
Uttar Pradesh Technical University**

**2007-2011
(4 Years)**

- Percentage – 73%.
- Consistent performance in all 8 semesters with proven leadership & excellent extra-curricular achievements.
- Conducted Enigma2k11 College Fest (http://www.enigma2k11.com/enigma_backup) in 2011, Developed and managed fest website and online events (Code Endeavour, Online Hacking, Movie Mania, and Perceptrix).
- Was the member of the CSIT society of our College, Managed society website (<http://ucercsit.org>) and events organization, organized Code Marathon 2010 and Code Endeavour-2008.
- Won second Prize in Software Development Competition in ENIGMA 09 Technical Fest of U.C.E.R College developed basic web server in JAVA.

Major Project:

Computer Vision Based, Human Machine Interaction System

This project provides technique of interaction with computer which helped the people to interact with system using the sign language and thereby controlling lights, fans etc., and other electrical system using this computer interaction system.

Technologies Used:

- C++ OPENCV and PYTHON.

LEADERSHIP

Co-Founder & Chief Coordinator

**ESOSC
(Engineer Society of Open Source Computing)**

**2007-2011
(4 Years)**

I co-founded ESOSC. This was a widely recognized initiative, and my 3-member team taken an initiative to advocate FOSS and conducted summer training 2011 in Open Source Software development, where we trained 32 students in Unix/Linux programming in C, PHP 5.0 with MySQL, OPENCV, Parallel Programming using OPENMP and network socket programming in C on LINUX (Ubuntu 11.10) Environments.

Highlights:

- Delivered awareness about Open Source Computing and various technologies and platform to contribute in technologies.
- Organized training classes for 32 students during summer 2011 for 30 days.
- Organized various courses and awareness about Computer Science Engineering and Open Source Contribution.
- We introduced them with License, technologies like kernel programming, OPENCV, Network programming etc.

Technical Trainer

NETTECH Pvt. Ltd.

2009-2010

(1 Years)

I served as Technical Trainer to provide training on Network Designing and Management, Web Designing and Ethical Hacking in UCER 2009, LNMIIT JAIPUR 2010 and IMT Ghaziabad 2010 summer training program, trained more than 1000 students from various different engineering colleges IIT, NIT and regional colleges.

Highlights:

- Provided training in Ethical hacking, network management and programming and CISCO advance switching and routing security.
- Designing the hands-on test and online quiz.
- Team handling, motivation, scheduling, planning and target achieving.
- Mentoring the student to design and develop the network security projects to understand the fundamental of the network management and security.

HONORS AND AWARDS

Certificate Of Appreciation (October 2011)

GEC Newsletter-Gurukul, Infosys Pvt. Ltd, Mysore.

Awarded for making invaluable contribution to Infosys online magazine newsletter by designing, developing the complete portal and contribution in editorial team.

RED HAT CERTIFIED ENGINEER (RHCE License Number 805010082551883) (August 2010)

Awarded for successfully qualified 100% score in RHCT and 98% in RHCE.