

MANAS SHARMA

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EDUCATION

Arizona State University, Tempe [CGPA-3.70]	May 2016
Master of Computer Science	
Visvesvaraya Technological University, India [CGPA-7.54]	June 2012
Bachelor of Engineering in Information Science and Engineering	

PROFESSIONAL EXPERIENCE

Tristar Inc. | Phoenix | Software Engineering Intern **October 2015-Present**

Tools & Technologies: Groovy on Grails framework, Java, SQL, Javascript, Rest APIs (Linkedin)

- Developer for the Tristar's proprietary CRM application that uses the MVC architectural pattern.
- Undertaking regular application maintenance and feature enhancement activities.

Skytouch Technology | Phoenix | Software Development Intern **May 2015-August 2015**

Tools & Technologies: Java, Spring boot, maven, web services (SOAP), Vagrant, Junit, Jira, Hibernate, Rabbit Mq (Exchange server for data transfer), Postgres SQL

- SOA infrastructure developer for Skytouch Technology's HOS (hotel operating system) distribution management component.
- Sharing J2EE coding responsibilities with the Bifrost distribution management team with use of frameworks like Spring boot and Hibernate and build automation tools like maven and Jenkins. Integration testing of the modules built was achieved by the use of Junit.
- Facilitating integration of a CRS (central reservation system) and PMS (property management system) of the Skytouch Hotel OS ecosystem via SOAP web services. Defect and development tracking using JIRA in an agile setting.

Accenture | Bangalore | Software Engineering Analyst **June 2012-July 2014**

Tools & Technologies: Oracle BRM, Oracle SOA/AIA, PL/SQL, SQL, UNIX Shell Scripting, Perl Scripting, SOAP and Restful Web Services

- Developed a data migration framework to facilitate data partitioning of a customer dataset having 6 million records. Used Perl scripts to fragment the dataset with PL/SQL queries fired from the scripts, data consistency and completeness was ensured.
- Was engaged in telecommunication product configuration and use case module development using Oracle BRM, Oracle AIA/SOA and shell scripting (additional use cases were built in Java, JSP, Shell and Perl scripts).
- Engaged in the development and testing of SOAP and Restful web services to facilitate integration of Siebel CRM and Oracle BRM systems. Writing XSDs to transfer CRM application business messages to the standardized Enterprise messages for internal processing.

ONGC Corp | Software Development Intern **June 2011-July 2011**

Tools & Tech: PL/SQL, JAVA, Python

- Company website development/management.
- Writing PL/SQL procedures, and triggers to facilitate data handling and enrichment

SKILLS

- **Languages:** JAVA, Python, Perl, Shell, SQL, PL/SQL, XML, XSLT, C, C++, C#, Javascript, PHP, UML
- **Web:** HTML, CSS, Javascript
- **Tools:** HP QC/ALM, Oracle BRM, Oracle AIA/SOA, Eclipse IDE, R Studio, Matlab, MS Office, Rally, JIRA, Taiga, Jenkins, Astah, Source Tree
- **Frameworks:** Spring boot, Maven, Junit, MS Visual Studio, Hadoop, JQuery, Apache Spark, node.js, express.js
- **Operating Systems:** Windows, Linux
- **Version Control:** GIT, SVN
- **Databases:** Postgres, MySQL, HDFS, MongoDB

ACADEMIC PROJECTS

Driver Safety [R Studio, Supervised Machine Learning] **December 2015**

- Developed a supervised learning algorithm on a training set having vehicular, personal and environmental factors influencing the driver of the car. Training set taken from a Kaggle competition provided by the Ford motor company.
- Results obtained on using Decision Trees, Random Forest model and SVM techniques were evaluated against a confusion matrix.
- An accuracy of 82% was achieved when an ensemble model (random forest) was applied on selected features.

Geospatial Operations on a Distributed Database [HDFS, Apache Spark, Java, Linux] **December 2015**

- Performing a sequence of Geospatial operations like Geometric Union, Spatial join on a dataset having Polygons and Point coordinates on a two dimensional plane. The load of processing being shared across a cluster having three nodes
- Algorithm built uses Apache Spark RDDs and geometric functions to compute the problem statement. Dataset processed was 15 GB in size.

Apartment Finder [Visual Studio, C#, SOA, WCF, Restful and Soap Web Services] **May 2015**

- A web application that aids users to look up apartments for rent in a locality, find places of interest near their locality and other attributes of the place such as solar intensity index, electricity rate estimates. The components were all built in the service oriented paradigm with the use of free to use APIs and these services were called from a front end user page built in aspx.
- Caching was used to save user preferences and easy lookup of searched items, Cookies were used in logging aide.