Sally Science

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USC Viterbi
School of Engineering

EDUCATION

University of Southern California, Los Angeles, CA
M.S. Computer Science- Data Informatics | Exp. May 2018

The LNM Institute of Information Technology, Jaipur, India
B. Tech, Computer Science Engineering | May 2015

SKILLS

- **Programming Languages** **:** Java, Python, R, Scala, SQL, Unix Shell, C, C++
- **Database Servers** **:** SQL Server, PostgreSQL, MongoDB,
- **Web Development** **:** AJAX, JQuery, JavaScript, Bootstrap, PHP, CSS, HTML 5.0
- **Tools** : Hadoop MapReduce, Apache Spark, Tableau, Tinker Pop, Eclipse, RStudio, Tensor Flow, IntelliJ, NetBeans, Apache Tomcat, GIT, Pandas, Numpy, Weka, Omnet++, MATLAB, DIA, Latex, GNU Plot, Gliffy, DrawIo.

WORK EXPERIENCE

USC Office of Design – **Programmer**   **Sept. 2016 – Present**
- Collaborated with the team to extend scrapping framework involving Selenium and Python.
- Designing a curation interface to tag collected educational resources using Java, JavaScript, AJAX, JQuery, Bootstrap, CSS, HTML 5.0. This interface is simulated for HIT (Human Intelligence tasks).

Excel Inc.– **Graduate Apprentice**   **Feb. 2016 – May 2016**
- Examined SAP ID Utilization under fit for future initiatives using six sigma approach
- Developed personalized Excel macros using VBA programming reducing costs worth $10 MN.
- Industry **4.0 Automation** project to verify the regular schedule for production of VE pumps on the assembly line using time-interval scheduling and digital parts scanning.

Create A Web- Research Assistant   **May 2015 – Dec. 2015**
- Devised an algorithm to analyze the data traffic on commercial websites
- Examined the purchasing patterns using Python (data analysis), Weka, C++ (network analysis) and Omnet++.

Institute of Information Technology – Teaching Assistant   **Jan. 2012– May 2015**
- Worked as a TA for four Under-Graduation courses: Computer Network, Computer Organization and Architecture, Data Structures and Algorithms, OOPS with Java.

PROJECTS

Predictive Blood Patient System – *Python & Weka*   **Spring 2017**
- Designed a predictive system using patient dataset (5000 records-USC Keck School of Medicine) to acknowledge the need of blood transfusion during a surgery.
- System reduced the amount of time

Movie Rating Calculation – *Scala and Spark*   **Spring 2017**
- Developed a system to calculate the average movie ratings for a large dataset.
- Designed using Scala to be deployed on Apache Spark engine.

Social Media Interpreter - *Tinker Pop & Gremlin*   **Fall 2016**
- Deployed an analyzer system using Apache Tinker-pop and Gremlin to find the relationship between the different users on Social Media filtered on selection criteria.

Payroll Accuracy Generator – *Java, MySQL & Apache Server*   **Fall 2015**
- Created an online application to improve the efficiency and accuracy of generating pay-roll using JAVA Servlets hosted on Apache Tomcat Server.

Online Shopping Website (Database Management System) – *PHP, MySQL, HTML & CSS*   **Spring 2014**
- Designed a website to increase the customer base by 10% improvising search time queries using PHP for backend communication and HTML, CSS for frontend design.

LEADERSHIP AND INVLOVEMENT

- **Member** : Viterbi Graduate Student Association (2016-2017), Artificial Intelligence Society (2016-2017), USC Association of Computing Machinery, CYGALS (2011-2015), VIVACITY (2012-2015).
- **Awards** : Best GA award Bosch, Jaipur (2016), LNMIIT Scholarship Award, Jaipur (2011-2015).