DIP PANSURIYA

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EDUCATION

Masters in Computer Science - University of Southern California   *December 2017*
B.Tech in Computer Engineering - Ganpat University   *May 2014*

SKILLS

Languages:	Java, Python
Web Technologies:	HTML5, CSS3, PHP, JavaScript, AJAX, JQuery, XML, JSON
Framework:	Bootstrap, MonoRail, JavaFx, ASP.Net
Databases:	MySQL, Oracle 11g
Development Tools and others:	AWS, Net beans, Eclipse, Git, MATLAB

PROFESSIONAL EXPERIENCE

Research Assistant, **Indian Space Research Organisation- ISRO, Ahmedabad, India**   *June 2014 - October 2015*
- Designed a prototype of image enhancement tool for Mars Mission using JavaFx Framework
- Implemented algorithms like Logarithmic transformation, spatial and frequency domain methods for enhancing images
- Developed functionalities - noise removal, enhance gray scale images and image cropping using JSP and Servlets

Full Stack Developer, **Excelsior Technologies, Ahmedabad, India**   *June 2014 - July 2015*
- Designed a prototype for payroll management using ASP.Net MVC Architecture, MonoRail and Bootstrap Framework
- Implemented modules like employee profile generation, leave and attendance management, employee salary increment, Email and SMS notification for HR Magic product

Engineering Project Trainee, **Physical Research Laboratory Ahmedabad, India**   *January 2014 - April 2014*
- Installed a WRF-CHEM Model on High Performance Cluster Computing to simulate data and benchmark the test performance of large Data sets (e.g. NOAA).
- Plotted location wise contours(Graph) of different chemical emissions using MATLAB

Software Development Intern, **iFlame Technologies, Ahmedabad, India**   *July2013 - October 2013*
- Developed Folder lock toolkit to secure and store data like images, passport, Business Info, videos and audios using Swing and Java NIO
- Implemented AES algorithms for encrypting and decrypting the folder

ACADEMIC PROJECT EXPERIENCE

Naïve Bayes statistical email filtering (Python, AWS, EMR, EC2)   *USC, Fall 2016*
- Deployed GUI interface and Implemented Naïve Bayes classifier to predict unseen email as spam or ham
- Evaluated the performance of the model on Hadoop Cluster using EMR for various cluster sizes
- Implemented Add-on and Laplacian Smoothing to overcome zero frequency estimation and built stop word model to improve accuracy

Web Crawler for Information Retrieval (Java)   *USC, Fall 2016*
- Built multithreaded Internet Boat interface for crawling webpages using Crawler4j
- Automated maintenance tasks on website by checking URLs, validating HTML code, web page size and its content type

Stock Search Information (PHP, JSON, AWS Beanstalk)   *USC, Spring 2016*
- Implemented responsive Web Application for Company's Stock Market details, history and newsfeed
- Incorporated Facebook share feature and used local storage for bookmark facility
- Developed an Android Application for mobile users with same functionality as Stock Market Search application

Instiman (ASP.Net)   *June 2013*
- Designed a university portal, using OpenRasta Framework
- Implemented suite of modules specifically tailored to the requirements of students and faculties and speed up administrative functions
- Worked on core functionalities like Student-Faculty Profile, Events management, Chat Application, Assignments turn in and Digital Library

Train Tracking System for Yahoo! India (Java)   *October 2012*
- Built a responsive web application using Restful Web Services and QT Jambi Framework for train travelers
- Retrieved real time data like next approaching train station, estimation time of arrival, weather forecast and emergency numbers by PNR

PUBLICATION

Simulation and Concentration of Carbon Monoxide and Ozone for Kedarnath in WRF-CHEM Model on High Performance Computing Cluster in International Journal of Scientific Engineering and Technology Research. (Link)   *June 2014*

ACHIEVEMENTS

- Oracle Certified Professional JAVA SE 6 Programmer [OCPJ] securing 96%   *October 2013*
- Secured best developer rank among top 24 developers in Yahoo! Hack the India Event   *January 2013*