PRIYAL AGRAWAL

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CAREER OBJECTIVE

5+ years rich experience in architecture design, development, and end to end deployment of applications. Highly professional, organized, adaptable & motivated with excellentanalytical, communication and problem-solving skills; self-starter with can-do attitude

PROFESSIONAL SUMMARY

- Proficient in end-to-end Software Product Development Lifecycle, encompassing requirement analysis, coding, estimation, code review, impact analysis, re-factoring, deployment, and documentation
- Worked in challenging development and deployment tasks in research wing of the company
- Good hands-on experience on in Data processing and backend development
- Good understanding in Natural language processing, Text processing, Chatbots and Cloud cognitive services
- Good hands-on knowledge Continuous Integration/ Delivery pipelines with tools like Azure devops, TFS (Team Foundation Server), Git-runner and majorcloud service providers, like AWS (Amazon Web Services), Azure etc.
- Hands-on knowledge of software containerization platforms like Docker
- Administrating databases (PostgreSQL and MySQL) and securing access

TOOLS AND SKILLS

Programming:	Python, HTML, CSS, JavaScript, Bash Scripting
Integrated Database:	PostgreSQL, MySQL (sql) MongoDB (no-sql)
Big Data Ecosystem:	Hadoop (HDFS), MapReduce, Pig, Hive
SCM tools:	GIT, GITLAB
Cloud Platform:	Azure, AWS
CI/CD Management:	Gitlab-runner, TFS, Azure Devops
Application Servers:	Apache2, Tomcat, PM2, Apache Airflow, IIIS (Internet Information Services) Server
Binary repository:	Nexus, Azure block storage
Containerization Tool:	Docker
Gateway management:	Gravitee.io
Platform:	Windows, Linux (Ubuntu, CentOS)

WORK EXPERIENCE

TCS Adecco Staffing Account   *Dec/2020 - till now*

Adecco Staffing is the world's second largest Human Resources provider and temporary staffing firm, and a Fortune Global 500 **company**. TCS is developing 6 of its brand websites for 20+ countries.

Role & Responsibilities -

- main responsibility is to work towards making improvements in the release process
- maintain/uphold a release repository/source to manage key information like build and release procedures, notification lists, and dependencies.
- Possesses excellent verbal and written communication skills and the ability to interact professionally with a diverse group of developers, product owners, and subject matter experts
- Manages and appropriately escalates delivery impediments, risks, issues, and changes associated to the product development initiatives

TCS Hays Account   *June/2019 – Nov/2020*

Hays is the leading global specialist recruitment group and the expert in recruiting qualified across the wide specialized industries. Hays Germany developed a web application COMA (a.k.a Contract Builder) with their CRM (Candidate Relationship Management) for the Sales User's. It helps a sales person to fulfill demand by associating a skilled worker and an employer. It is used to define andmanage the contracts that bind them together.

Role & Responsibilities –
- Analyzed, reviewed, and finalized the design on tools implementation, build and deployment automation for20+ services.
- Designed DevOps infrastructure from scratch for 10+ product components.
- Achieved 99.99% uptime for services on SLA (Service Level Agreements).
- Reduced lead times by 15% and failures by 78% by Building the CI/CD automation pipeline in TFS
- Reducing deployment time from 2 days to 20 mins by Deployment automation
- Automated Documentation generation for all the RestApis of project using Docfx

TCS Research and Innovation: CTO Incubation   Dec/2016 – June/2019
TCS In-House AI Platform

The vision of AI Platform is to enable development for Cognitive Solutions by providing easy to use, easy to integrate and reusable components. This helps developing rapid solutions for wide industry segments. The platform is intended to add value for customers by providing reusable components for rapid development of Desirable, Reliable and Cost-effective Cognitive Solutions.

Roles & Responsibilities -
- Worked in multiple roles from Python-ML developer, Python-ML lead to deployment architect
- Completed multiple PoCs to respond RFPs from clients including Information extraction out from documents, Recommendation Engine, Cognitive Search, Model management, Natural Language Processing, Proactive software chat bots
- Handling all web server configurations and application deployment such as Nginx, Apache, pm2 and tomcat on various Linux and cloud platforms.
- Containerized project using Dockers to create dockerized, pre-cooked environments for making it portable and system independent.
- Key person in providing assistance to different teams in all stages of development, testing and production of AI Platform components
- Provided all round technical support to external customers for integrating models with AI Platform.

Other Projects:
MRO Question and Answer chatbot
- The project was aimed to process huge MRO (Maintenance Repair and Operation) manuals into the Q&A chat bot.
- Data Cleansing and Pre-processing of manual data based on headings and subdivisions
- Text processing using Analytics algorithm, entity extraction models and various normalization techniques such as tagging, tokenization and parsing using textacy, spacy, genism.
- Developed Natural language processing question set using RASA, LUIS

Cognitive Service Comparator

This project was aiming to provide the capability to test various prebuilt cognitive services provided by IBM, Microsoft, and Google to see the confidence scores. It includes numerous services like OCR, image tagging, sentiments and more.

Drone Inventory Chatbot
- This project processes various images of item labels taken by drone from the inventory and processes OCR over them.
- The processed image text data is used by Azure hosted chatbot to fetch the desired search results of where the item is in inventory

TCS ILP Innovation Labs   Aug/2016 – Dec/2016

ILP Innovation Labs identifies and selects few associates during their ILP (Initial Learning Program) and use their knowledge, enthusiasm, and ideas to build innovative solutions to solve real world problems.

Roles & Responsibilities -
- Worked with Data Analytics team to develop POC (Proof of Concept) level applications.

- Capability demonstration for clients using Rapid POC applications to get customers for TCS.
- Worked as backend developer to enable development of applications used within TCS.

Projects:
MLCP – November 2016
- An internal project to automate the records of car parked in Multi-Level Car Parking system.
- The images of number plate of cars parked on various level of parking are taken by robot which synchronizes them to cloud.
- These images were analyzed and text file is created containing the record of cars on daily basis.
- This will help management in finding the list of cars parked on various levels in specified time.

US Health Project - October 2016
- The project was aimed to predict the readmission of patients based on pattern of people who visited the hospital more than once.
- A machine learning algorithm works in background which renders visualization for better understanding of patterns in the data.

English Assessment - September 2016
- An internal project to grade the written assessments of ILP (TCS training curriculum) associates.
- Web scraped the data on various domains like History, Philosophy.
- Data cleaning and pre-processing the raw data to store in database.
- Extracted relevant sentence and words for word count in each dimension

Major Graduation Project
Big Data Encryption - April 2016
- As major graduation project, aimed to encrypt those columns of datasets which contain confidential information of customer before analysis.
- Installed and configured MapReduce, HIVE, PIG, HBase and HDFS in Multinode Hadoop cluster on CentOS.
- Developed MapReduce jobs to parse the data and encrypt the columns of dataset.
- PIG Scripting on loaded dataset to encrypt the specific columns containing confidential

information. The link: *https://drive.google.com/open?id=0B6O5eH8xmtw0Z21HQWhBazNJSE0*

Training/Internship
Implementations on Hadoop Framework - July 2015
- As project trainee at IIT-BHU, Varanasi, implemented PsuedoDsitributed Hadoop cluster on CentOS.
- Also configured and setup the Hadoop distributed cluster environment to perform various HDFS implementations
- Using Map-reduce, PIG and HIVE tools parsed the raw data, populated staging tables, stored the refined and analyzed 22 different datasets.

The link: *https://drive.google.com/open?id=0B6O5eH8xmtw0QW5QdVRTX3VXakE*

Implementation of various interesting games – June 2014
 Summer training project at IIT-BHU, Varanasi was aimed to develop various games like Tic-Tac-Toe, Chinese Checkers, Sudoku

ACHIEVEMENT AND PARTICIPATION
- Interviewed and trained multiple associates in team for programming standards.
- Played a key role in overcoming development challenges during the execution of projects
- Awarded as Applause for the team and various Best Team award within TCS
- Certification course in Big Data and Hadoop with Grade A by Edureka
- Participated in Code Vita Season IV and qualified to the second round, conducted by Tata Consultancy Services, August 2015.

EDUCATIONAL QUALIFICATION

Graduation (2012 – 2016)   Bachelor of Technology in Information Technology SRMCEM (74.7%)
Intermediate (2011–2012)   Sunbeam School, Varanasi (79.2 %)
Secondary (2009 – 2010)   Sunbeam Academy, Varanasi (9.6 CGPA)

PERSONAL SKILLS

- Quick learner, dedicated, enthusiastic, responsible with humble lifestyle
- Effective communication skills, quick learner, good in analytical skills, friendly