**VARUN SINGH CHAUHAN**

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**TECHNICAL PURVIEW**

* **Programming Languages**: C,C++, Python
* **Operating Systems**: Windows & Linux (Ubuntu)
* **Framework**: Falcon, Flask
* **Emulator used**: Putty(for UNIX & AXI platform)
* **Database client software**: Teradata (15.1.0.0), MongoDB(3.6 & 4.2), Elasticsearch (6.4.3 and 7.3.2)
* **ETL Tools**: Informatica Big Data Edition (10.2.1), Informatica PowerCenter (9.6.1), Data Stage(11.3)
* **Application containerization**: Docker (18.09.9 and 19.03.5)
* **Authentication**: Keycloak(7.0.1 & 8.0.0)

**ORGANIZATIONAL EXPERIENCE**

**Since Mar’16: UST Global, as a Software Developer**

## Key Highlights

* Involved in developing python based applications from design till production deployment.
* Involved in integrating machine learning models with various applications such as chatbot application (application name-ICE-XD) and masterbot application(an application using which one can combine various chatbots at one single place).
* Worked on development of application known as “Vision” which extracts the information out of any document by integrating machine learning models based on Neural Network technology.
* Dexterously developed applications being used by many clients such as Boots, Anthem, many healthcare related clients.
* Configured and manually tested software applications and developed test plans & unit test cases.
* Docker Integration for capability of deployment stage for containerization of an application so that the application can work efficiently in a different environment.
* Earned appreciations by the UST’s RND Department and NetApp account for efficient execution mindset.
* Actively involved in organizing various events within UST.
* Experience in AGILE methodology.

## Projects Undertaken

**Title: BI (**Business Intelligence**)**

Clients: NetApp and Maersk Designation: ETL Developer

# Domain: Data-warehousing, Business Intelligence

Description: Providing Data Integration Solutions using Informatica PowerCenter (ETL), Informatica Big Data Edition (BDE) and Teradata (RDBMS).

Team Size: 60

# Responsibilities:

* + Creating mapping for Extracting/Loading data from sources/targets like API, Hadoop (HIVE), HDFS, Relational Databases etc.
  + Performing data manipulations using various Informatica Transformations like Filter, Expression, Lookup (Connected and Un-Connected), JAVA, Rest API, Data Processor, Aggregator, Joiner, Router, Sequence Generator, Sorter and Union.
  + Creating ETL code for extracting data from various sources like Message Queue, Relational Databases, Flat- Files (Direct and Indirect), SAP BW, SAP Open Hub Destination (SAPOHS) etc. and Loading data to targets like Relational Databases, SAP BW, Share point etc.
  + Developing Workflows using Informatica BDE using appropriate gateways to improve performance and thus to provide better restartability.
  + Creating shell script for Deploying/Migrating the Applications to higher environments in Informatica BDE.
  + Creating Macros for transforming the data from the staging area to the Data-warehouse as per the mapping document.
  + Exposing the data from the Data-warehouse to end users for reporting purpose.
  + Developing scripts for migrating/deploying the Teradata components.
  + Optimizing performance tuning at source, target, mapping and workflow level.

**Title: ICE-XD (**Intelligent Conversation Engine - Experienced Design**)** Client: Innovation (UST’s RND Team)

Designation: Python Developer Team Size: 15

Main Tools: Python (2.7 and 3.6), MongoDB (4.2.0), Docker (18.09.0), Postman

Description: The project involved creating a conversation designer (application) that can be used by various clients to create their own chatbots with no coding.

# Responsibilities:

* + Introduce capability for users to create their own workflow using stories, configuring prompts, setting up navigations, calling third party API’s, setting up responses.
  + Introduced machine learning capabilities using NLP models for data training and better intent and entity identification.
  + Improving the ICE-XD APIs by adding new features to the product.
  + Introduced Synonym capability – User need not train huge amount of words with same meaning, training can be done for few words and rest can be set as synonym against one of the trained word.
  + Bug fixing in ICE-XD and code refactoring on regular basis.
  + Creating python scripts and Mongo scripts to perform certain actions such as importing and exporting the data, creating the required collections in MongoDB.
  + Conversion of entire application from python 2.7 to 3.6 without compromising with the capabilities of the product.
  + Keycloak integration – Added authentication.
  + Dockerizing the entire application – Giving user’s the capability to configure the entire application requirements with a single command.

## Title: MasterBot

Client: Innovation (UST’s RND Team) Designation: Python Developer

Description: The aim was to develop a tool having the ability to connect to various chatbots and can be used to get the response from all of them in one session. An employee/user do not have to login to different chatbot interfaces to complete all his/her task, they can complete all the work using single MasterBot. MasterBot internally will connect them to different chatbots.

# Responsibilities:

* + Building the API’s capable to store various chatbot’s unique Id and able to connect to one based on user’s request.
  + Introduced the tags and rules concept for accurate mapping of intented chatbot.

## Title: SmartOps

Client: Innovation (UST’s RND Team) Designation: Python Developer

Description: SmartOps is a platform consisting of various applications which can be used for automating processes for different clients belonging to different verticals with the help of various AI and Machine Learning techniques.

Team Size: 60

# Responsibilities:

* + Built CMS application(Contract Management System)- A python based application that extracts all the information from contract related documents (such as MSA, SOW etc) and find correlation between them using ML capabilities and present the data to client in a more related and presentable form.
  + Using Elasticsearch to store the entire application data via Elasticsearch Apis.
  + Added features to Smart-Vision application – A python application used for document extraction capability using computer vision techniques.

**EDUCATION**

* **2011-2015: B.Tech in Electronics & Communication** from Amity University, Haryana with 8.44 CGPA

## Academic Trainings and Projects:

**Title: Networking Framework** Organization: India Meteorological Department Duration: 3/6/2013 – 12/7/2013 (6 weeks)

Description: LAN and WAN Management and Optical Fibre

**Title: Satellite Meteorology** Organization: India Meteorological Department Duration: 11/6/2014 – 31/7/2014 (6 weeks)

Description: Reception of Meteorological Data from INSAT-3D

## Title: Intelligent Bus Management System

Organization: Amity University Haryana Duration: Dec 2014 – June 2015 (6 Months)

# Description: “Intelligent Bus Management System” is designed to curb the current challenges and problems such as overloading and smoking in the bus. The system also builds a common platform for integrated monitoring and passengers’ information services by informing about seat availability and displaying the current location of the bus at the bus station. The system will be efficient for the people as it will minimize the dependency to use their own vehicles.

* **2010-2011: Senior Secondary school** from Bal Bhawan Public School, Laxmi Nagar, Delhi with 67.14 %
* **2008-2009: Secondary School** from Bal Bhawan Public School, Laxmi Nagar, Delhi with 80.04 %

**PERSONAL DETAILS**

**Date of Birth**: 2nd March, 1993

**Permanent Address**: WA-113A, Shakarpur, Delhi-110092

**Languages Known:** English, Hindi & German

**Interests:** Script Writing, Swimming, Car Driving, Running, Cooking

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