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## Summary

Software developer with knowledge of complete stack from designing the application, developing front/backend, setting CI/CD pipeline to actual deployment of product. I also have industrial/ personal experience of building AI/ ML models and taking them to the end customers.

I built most of these projects mentioned from scratch. I have experience of leading projects and working in multiple languages and through multiple teams.

I am looking for an organization where I can help them to grow more and in the process take my skills to next level. Always enjoy learning new things :)

## Education

10th CBSE Board  
2012, 10 CGPA  
Jawahara navodaya Vidyalaya, Washim

12th CBSE Board  
2014, 94.20%  
Jawahara navodaya Vidyalaya, Washim

B.Tech  
(Computer Science)  
2018, 8 CGPA  
National Institute of Technology, Delhi

## Professional Experience

### Senior R&D Engineer at Wadhvani AI

July 2020 - Present

- **Leading a team of 5**
- **All rounder**, from designing architecture to building, guiding others to deploying product
- **Interviewed candidates** from junior to senior level roles

#### • Pest Management: (Django, React, Docker, AWS EC2, s3)

It is an AI solution which monitors infestation at a farm level with observational learning from on-field data collection.

- Worked on **both frontend and backend** of this project
- **DB design, APIs for frontend applications**
- **React dashboard** for farmer level infestation monitoring

#### • Serveflow: (FastAPI, Docker, AWS ECS, s3)

A platform/ infrastucture for **deploying ML models in production**

- **Lead from development to deploying** this project in production
- complete **design** (low, high level) of the project

#### • Annotation Studio: (FastAPI, Apache Airflow, React admin, Docker, Cognito, s3)

Annotation platform for wadhvani AI.

- worked in both **backend and frontend** of this project
- Developed **Authentication/ Authorization setup**
- Thumbnail generator, **APIs** for frontend, annotation service providers
- **React admin dashboard** to show data with its annotation results

#### • Data Ingestion: (Cognito, Cloudformation, Cloudfront, SES, Lambda, React, s3)

Platform to collect data from third parties **with a secured connection**.

- **Lead this project**
- **Complete serverless** application with cloud formation
- **5min setup time** to onboard new setup with Authorization

#### • Cough Against Covid: (Pytorch, Flask, React)

An app to detect if the person has a **covid** or not **just by recording cough**.

- This was **used by BMC and Bihar govt** to filter out candidates for RT-PCR testing as there were very limited no of tests available.
- Helped team in **developing cough model to build quick mobile application**

### Software Engineer at Qualcomm

2018 - July 2020

- **Ownership of complete modules** in Qualcomm Processors
- **Leading and Developing** Applications to increase the team productivity
- **Managing Interns** and intern Projects

#### • DeepScope: (Tensorflow, Flask, Jinja2, Material UI)

- Develop **Intelligence to find the root cause of a crash**
- **Designing and building** this intelligence from scratch
- **Lead** this Project

#### • Q/A Platform: (Docker, Flask, Jinja2, Material UI)

- Internal Platform for Qualcomm
- **Features:**  
Questioning, intelligent Question Searching, Question Tagging, Answering, Commenting on questions and answers, Upvote/ Devote

#### • Smart Assembly Code Viewer: (Python)

- To be able to **read code more efficiently**.
- All features of **Code Viewer**
- Some Special Features:
  - Converting **Assembly code into C code**
  - Getting **Flow chart** of a function
  - Get mnemonic information **on a click**

## Awards

Qualstar - Qualcomm award of excellence.  
(Jan'19), (Aug'19), (Jan'20)

Selected for Regional onsite round of ACM-ICPC 2016 and 2017

Winner at Delhi Entrepreneur Challenge by NSIT, Delhi  
(January 2016)

Secured 3rd position in Annual IIT Delhi Hackathon-2016

Secured position in Top 15 projects at IBM organized International Hackathon where 2,700 teams participated. (Jun'15)

Rajya Puraskar In Scouting  
(Feb'11)

Played at Nationals level in Hockey(Nov'11), Basketball (Nov'17, Oct'16)

## Skills

Algorithm Design  
System Design  
Leadership  
Backend, Frontend  
Machine Learning  
Deep Learning  
Django, Flask, FastAPI  
MySQL, MongoDB  
Docker  
Pytorch, Tensorflow  
Cognito, Lambda, S3, EC2,  
Cloudformation, ECS  
React, Material UI  
Apache Airflow  
Research

## Software Engineer at Oopadai

May 2017 – June 2018

- Worked on this project **from scratch**
- Built **APIs for web and mobile** application
- **Calling from web** feature (It wasn't common in India at that time)
- **Payment Setup**

## Summer Research Intern at NIT Delhi

March 2017 – Jun 2017

The project was to get the **similarity between two sentences of any language ( It can be *natural language or computer language* )**. We parsed sentences and applied modified zhang and shasha's algorithm on tree forest of parts of sentence and used regression to find out weightage for parts of sentences.

## General Secretary (Coding Club) at NIT Delhi

Jan 2017 – Aug 2018

- **Managing, Leading, helping teams** to achieve club's goals.
- **Innovating interesting events/** competitions to attract people towards technology
- Conducted Educational workshops
- Prepared teams for **ACM-ICPC**
- Organizing Technical events for different college fests

Few Innovative solutions:

### • Clash Of Codes:

A web portal on which user will submit **one player AI code** to play a game and he will be able to compete with other player's AI code. Then portal will show the final winner with every step.

### - Came up with this idea

- Complete **Designing, implementing and conducting** this competition with success
- Made this **generic** so next generations can conduct this with ease

### • Treasure Hunt :

**QR code reader** was added in this app and was linked with server so, users need to scan the QR Code to get the next clue. Automatic score updation was also added for clarity.

- Made this **idea workable** by conducting this event
- **Lead and developed** this project

## Graduate Student at NIT Delhi

2014 – 2018

Developed many interesting projects while pursuing my graduation. Some of these are developed with team.

Some Interesting Projects :

### • Emotion Graph

Gives the graph of emotions of a paragraph or novel based on Robert Plutchik's emotion theory .

### • Ségrégations Of important Moments from a video

Extracts important moments from any type of video such as sports, action, animation etc...

### • Image classification model using Deep Learning

This was a convolutional neural network which was trained to differentiate different artists of BTS band gave around 90% accuracy.

### • CodeNative Compiler

A specific purpose, user friendly, simplified language which allows users to code in their multilingual languages (hindi/marathi etc..) which generates base lang (java) code.

### • Sanskrit Operating System with Hardware architecture using Sanskrit instruction set

This was a generation-1 OS in Sanskrit with own designed hardware and instruction set in Sanskrit. It was implemented on FPGA.

### • Python Scripted useful applications

- Best Search Engine- searches best result from multiple search engines
- 3D video converter from 2D video for VR Box- converts any video to VR Box compatible
- Pdf to Audio converter - It creates separate audio files per page in the fastest possible way.
- Auto upload on Drive - uploads files automatically on drive.

### • Gaming Projects:

- In C++ : Mario ,Simple games like Snake, Snake and Ladder,Snappy Bird etc..
- On Web Technologies: Basic Games in Snappy bird, eight queen game, join dots etc..