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**SUMMARY**

A dynamic, software developer with 3+ years of hands-on self-project and work experience in back-end and front-end application development who is also a team player with excellent problem-solving skills and expert knowledge in common backend tools and technologies along with the willingness to learn and grow even more.

**EDUCATION**

**Virginia Tech** – MEng Computer Science Aug 2021-May 2023

Key Courses: Web development, Software development, Info. Visualization, Data Analytics, Data Structures, Advanced ML.

**Saveetha Engineering College**, India – B.E. Computer Science and Engineering Aug 2016-Aug 2020 Key Courses: Application development, software engineering, database management, theory of algorithms, data structures.

**SKILLS**

Languages and Framework

**Python, Java, C, C#, R, JavaScript, HTML, CSS, PHP, MySQL, React, NodeJS, AngularJS, Materialize, Bootstrap, Dash, Django, Flask, Docker, Spring Boot**

**EXPERIENCE**

**Assistant System Engineer**, Tata Consultancy ServicesJan 2021-Jul 2021

* Designed and developed multiple web applications for multiple client organizations, revamped deployed websites and optimized rendering latency for enhanced website performance and user experience.
* Managed multiples client requirement calls to gather inputs on enhancing user experience, leveraging user-centered design principles and usability testing to identify and iteratively improve the user interface in an Agile setting.

**Data Science Intern**, ArtenalOct 2020–Dec 2020

* Developed and integrated multiple recommendation systems with websites by leveraging multiple analysis algorithms.
* Implemented analytical techniques to extract insights from data for making informed business decisions.

**Full Stack SDE Intern**, MVI TechnologiesMay 2019–Jun 2019

* Developed a web application to manage and record task schedules of employees and team leaders with features to view team performance and allocate tasks.
* Contributed to existing projects by debugging code and indulging in QA and implementing new widgets to improve the functionality of the application.

**PROJECTS:**

# Detecting image replication using CNN

* Tech Used: **Python, Tensorflow, scikit, matlab**
* Developed a **Deep learning** model that identifies duplicates in an image set using **Siamese CNN**
* Implemented Grad-CAM to illustrate the working and justify decisions made by the model.

# Pharmacy locator application

* Tech Used: **Android Studio, SQLite, MapsSDK, jsoup,scrapy**
* Developed an **Android** application to locate nearby hospitals and pharmacies using Google maps to provide navigation from user location.
* Designed a database to store details of hospitals from scraped data and to update stock availability of pharmacies in real time.

# Anagram Game

* Tech Used: **Python, Django, Materialize, HTML, JavaScript, MySQL**
* Implemented the anagram game using Python to generate anagram words and keep score.
* Designed a website to host the game with dashboards showing score records.

# Stock price prediction

* Tech Used: **Python, Octave, Matlab, tensorflow, keras**
* Developed a LSTM model to predict the future trend in stock market using time series analysis.

**US Natural Disaster data visualization**

* Tech Used: **Python, Dash, Scikit-Learn, Flask**
* Developed and deployed a website to visualize results of data analysis on given data.
* Website for US Natural Disaster Visualization <https://dashapp-upfzuzg5ya-pd.a.run.app/>

**PUBLICATIONS:**

“**Smart Travel Plan Generation System Using Image Classification Approach**” EPRA International Journal of Research and Development (IJRD) Volume: 5 Issue 4