

PRIYANSHI SHARMA

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EDUCATION

VIRGINIA TECH

Master of Engineering, Computer Science | GPA: 3.95/4

Blacksburg, VA

August 2021 - May 2023

Related Coursework: Blockchain, Data Structures and Algorithms, Software Engineering, ML in Big Data, Data Analytics.

GURU NANAK DEV UNIVERSITY

B. Tech in Electronics and Communication Engineering | GPA: 8.88/10

Amritsar, Punjab

July 2017 - June 2021

Represented Web and Design team of Electronics Student Forum as an active member for 3 years.

SKILLS

Languages: Java, Python, C++, HTML/CSS **Data:** MySQL, Xampp, JSON

Others: Django, PyTorch, Pandas, JUnit, RESTful API, Agile, Object-Oriented Design, Docker

EXPERIENCE

DEVOPS ENGINEER – Virginia Tech (Part Time)

May 2022 – Present

- Transitioning the web-hosted prelab software used for generating, hosting and grading quizzes for around 90 students of chemistry department to **docker** to improve the scalability and to migrate to cloud.
- Created a docker-compose file that deploys Apache server, MySQL and phpMyAdmin together as 3 separate services that communicate with each other.
- Currently working on designing the configurations to use docker secrets to provide security to the **MySQL** credentials by encrypting it.

PROJECTS

Implementing Digital Twin of Landing Gear (Boeing Sponsored Project)

January 2022 – May 2022

- Led a team of 5 people to simulate a health monitoring system using **python** that collects the data and detects possible failures in a landing gear against 8 parameters in real time.
- Worked on a mathematical model to gather possible data against 23 parameters (187% increase) that can make up for the insufficient real-world data.

Industrial Training in Java Advance – Vmm Education

February 2021 – May 2021

- Developed an end-to-end **Covid Web Application** using **Java, CSS, HTML, JavaScript, REST APIs** and worked on **Tomcat web server** and **MySQL** database.
- Incorporated the concepts of **AJAX, JSON** and **JSP** for server-side and followed scrum methodology for software management.
- Achieved a scalable and responsive website that acts as an interface between patients and hospitals and provides the number of people registered for vaccination.

Sentimental Analysis of Amazon Reviews

October 2021 – December 2021

- Implemented Sentimental Analysis of 35 million reviews of Amazon Reviews model using Machine Learning models and NLP models.
- Executed a **BERT** transformer-based model as NLP model and implemented **ML models**.
- Managed to achieve a model that can predict sentiment of unseen reviews, with a high degree of accuracy and f-score of **94%**(BERT) and f-score of **85%** (logistic regression).

Cloud Based Outdoor Patient Automation for Clinics

June 2019 – July 2019

- Created a responsive desktop application that manages the OPD system for a hospital in **Python** and used the **Xampp server** for **MySQL** database.
- Accomplished a robust web app which is designed for better patient care and for reducing hospital operating cost.

LEADERSHIP & ACTIVITIES

- Coordinated and presented events in technical festivals and activities such as Art Exhibition, 'I am Engineer' competition and Techfest (Tachyon2.0) held by ECE department (2019).
- Volunteered in organizing TEDx Lawrence Road (2018) held for the first time in Amritsar.