DHANA LAKSHMI VEERAMACHANENI

nvveer@iu.edu |812-558-8470 |United States |Portfolio |LinkedIn |GitHub

EDUCATION:

Master of Science in Computer Science ***January 2021***
Indiana University, Bloomington, IN, USA *GPA: 3.7/4*

Bachelor of Technology in Computer Science and Engineering ***September 2013 - May 2017***
JNTUK University, Andhra Pradesh, India *GPA: 9.2/10*

WORK EXPERIENCE:

Associate Instructor - Indiana University, Bloomington, Indiana, USA

Informatics CAPSTONE ***July 2021 – Present***

- Taught the ways of scraping the data from the web using **Python** for four teams on four different projects**.**
- Explained and guided on how to represent the data collected as charts and maps using **plug-ins, CARTO and Chart JS** for their projects**.**

Database Concepts ***August 2021 – Present***

- Generated quizzes, assignments, and practice questions for Database Concepts with **pgSQL** (PostGRE **SQL**) assignments, and also assessed student projects.

Project Engineer - Wipro Technologies, India **January 2018 – August 2020**

- Worked for one of the global leading Financial & Banking client, ***MasterCard International***. Functioned as primary Linux administrator and systems engineer to maintain system services and performance.
- Planned and executed Linux system changes and upgrades. Performed Automation using **Python** and variety of **scripting technologies** to meet target timelines and specifications.
- Installed and configured all the **Linux & Solaris** servers & Solaris Servers in the **network** as per specifications of clients.
- Patching quarterly for all the servers across client datacentres. Wrote the required script that will decrease the man power by 30% by **automating** most of the patching on all servers across a region at same time.
- Internally transferred to the same project as a skilled **Agile**-DevOps web application developer.
- Performed unit stories using **Spring MVC**, **Spring Boot**, **Spring Batch & Security**, **Microservices**, **Hibernate**, **JPA**, **Oracle SQL**, **PCF**, and a few **DevOps** tools such as **BitBucket**, **Maven**, **Jenkins**, and **SonarQube**.

SKILLS:

- **Programming & Scripting Languages**: C, C++, Java, Python, JavaScript, AutoIT, Power Shell, Batch
- **Web Technologies**: HTML, CSS, SQL, NoSQL, React, RESTful-API, Node, Flask, Databases (SQL Server, MySQL, MongoDB)
- **Python Libraries**: NumPy, Pandas, matplotlib, scikit-learn, Selenium, Beautiful Soup
- **DevOps**: Docker, Kubernetes, Jenkins, GIT, Apache Kafka, RabbitMQ, Apache JMeter, VMware, JetStream
- **Cloud**: AWS (EC2, S3, RDS, DynamoDB, IAM, VPC), GCP (Basics), Mulesoft (Mule 4)
- **Operating Systems**: Windows, Linux, Ubuntu, Solaris
- **Other**: Jira, Confluence, Crucible, Zephyr, WiX, Eclipse, VS Code, Postman, Firebase, IntelliJ, PyCharm, Visual Studio.
- **Certifications:** Diploma in AWS || Full-Stack JavaScript || GitLab || Applied Machine Learning in R || Agile Scrum master Workshop || SQL for Data Analytics || MERN Stack ||
- **Coursework:** Applied Algorithms, Advanced Operating Systems, Elements of Artificial Intelligence, Applied Machine Learning, Software Engineering, Security for Network Systems, Web Scraping, Data Pre-Processing, Data Mining, Cyber Security and Defence, Data Visualization, SQL and NoSQL.

PROJECTS:

- **Movie Score** **[React, Mongo DB, Express, Node, AWS]:** Developed a MERN stack web application that presents the most recent collection of movies and relevant information, as well as allowing authenticated users to like, favourite, and review them. Deployed on an AWS EC2 instance with NGINX as the frontend web server and node as the backend server, as well as a cloud Mongo DB cluster for movie data storage and an AWS S3 bucket for movie posters.
- **Toxic Speech Classifier** **[NLTK, HTML, CCS, Flask, Matplotlib]**: Using the Natural Language Toolkit(NLTK) module in Python, I created a machine learning-based web application that can classify user-provided speech into multiple harmful categories such as Normal, Toxic, Obscene, Threat, Insult, and Hate. The front end was built with HTML and CSS, and the backend was built with Flask.
- **Job Title Recommendation System** **[Spring Boot, MySQL, React]:** Developed a full-stack web application prototype that can be leveraged as a skill repository of all employees in a company and recommend the job that suits the candidate the most. Backend is implemented using Spring Boot, MySQL Database and JPA for the ORM. Frontend is implemented using React JS along with Axios library for the http requests.
- **PixelGram** **[React, REDUX, Node, Python, Docker, Jenkins, Kubernetes, RabbitMQ, JMeter, SQLite DB]:** Designed and developed a fault-tolerant distributed systems based web application with high availability & scalability which can be used to share, upload, download and organize photos employing the Micro-Services Architectural pattern. Built a CI/CD pipeline using Jenkins to deploy the containerized microservices on a Kubernetes cluster running on a cloud VM instance setup on Jetstream. Used Google Drive as the photo storage and leveraged GIT effectively for the source code and project management.
- **Mobile Attendance System** **[Android, JDBC]:** Designed and developed an Android application to record the attendance of students based on ID scanner data from the entrance of each room. This is an undergraduate project. Built the application using Android Studio, Connecting the front end and back end with JDBC. Updated attendance will further be stored in the college portal that can be viewed with student permit. Edit and Rewrite needs admin permission. Used GIT for the source code and further development.