Dhanalakshmi Veeramachaneni

nvveer@iu.edu |812-558-8470 |Bloomington, IN | github.com/DhanaV-git|linkedin.com/in/dhana-veeramachaneni

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

Java Programming January 2021 – May 2021

- Framed quizzes and practice questions for the **Java** programming assignments and evaluated the student's projects.
- Conducted labs and office hours to advise and assist students with their coursework, assignments and projects.

Informatics CAPSTONE July 2021 – Present

- Taught the ways of scraping the data from the web using **Beautiful Soup and Selenium** libraries and data cleaning 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

- Framed quizzes, assignments and practice questions for the **Database Concepts with pgSQL(PostGRE SQL)** assignments and evaluated the student's projects.

Project Engineer - Wipro Technologies, Chennai, India January 2018 – August 2020 ; Client: *MasterCard International*

- Worked for one of the global leading Financial & Banking client. Functioned as primary Linux administrator and systems engineer to maintain system services and performance – Planned and executed Linux system changes and upgrades.
- 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.
- Internally moved in the same project as an experienced Agile-DevOps web application developer. Skilled and developed web applications in Spring MVC, Spring Boot, Spring Batch & Security, Microservices, Hibernate, JPA, Oracle SQL, PCF and few DevOps tools like 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
- **Coursework:** Algorithms & Data Structures, Advanced Operating Systems, Elements of Artificial Intelligence, Applied Machine Learning, Bigdata, Software Engineering, Computer Organization and Architecture, Computer Networks, Security for Network Systems, Web Scraping, Data Pre-Processing, Data Mining, Cyber Security and Defence, Data Visualization, SQL and NoSQL, Database Concepts, Web Programming.

PROJECTS:

- **Movie Score [React, Mongo DB, Express, Node, AWS]:** Developed a MERN stack web application that displays the latest collection of movies and related information wherein the authenticated users can like a movie, mark their favourites and post reviews. Deployed on an AWS EC2 instance with NGINX as the frontend web server and node as the backend server along with a cloud Mongo DB cluster to store the movie data and AWS S3 bucket to store the Movie posters.
- **Toxic Speech Classifier [NLTK, HTML, CCS, Flask, Matplotlib]**: Developed a Machine learning based web application that can classify user provided speech into various toxic categories like Normal, Toxic, Obscene, Threat, Insult, Hate using the Natural language Toolkit(NLTK) library in python. Used HTML & CSS for the front end and Flask as the backend framework.
- **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.