SRAVYA GARAGA

sgaraga@iu.edu | 513-993-8135 | GitHub | LinkedIn

EDUCATION:

Indiana University, Bloomington, IN, USA **Dec 2022**
Masters of Science in Computer Science ***GPA: 3.6/4***
Coursework: Applied Algorithms & Data Structures, Elements of Artificial Intelligence, Applied Distributed Systems, Applied Machine Learning, Operating Systems, Data Mining, Management of Bigdata

Chaitanya Bharathi Institute of Technology, Osmania University | Hyderabad, India **May 2018**
Bachelor of Engineering, Electronics and communication Engineering ***GPA: 9.0/10***

PROFESSIONAL EXPERIENCE:

Indiana University, Bloomington, IN, USA - *Associate Instructor, Tools for computing* **Jan 2021 - Present**
Held weekly office hours and one-to-one sessions to assist students with their queries, led weekly labs, mentored projects, designed course content and weekly programming assignments.

Accenture Technologies, Mumbai| Hyderabad, India - *Application development analyst* **May 2018 – August 2020**

- Trained in computing and Object-Oriented programming concepts, gained an understanding of Waterfall and Agile methodology.
- Worked for a healthcare client (CAQH) as a full stack developer, designed and developed an MVC architecture-based HR full-stack application to maintain self-reported provider data for the client using .NET framework and MySQL
- Maintained client's database and fulfilled their data requirements. Developed task schedulers to automate the loading files into the database and sampled according to necessity; also, an event scheduler for timely scheduled delivery of email of the files loaded.
- Assisted test teams to triage and resolve defects in testing, monitored issues in the production environment using ServiceNow ITSM & provided quick resolution for production incidents as per client SLA during the post-go-live warranty period.
- Delivered enhanced developments like software that automated customer data collection.

B2B software technologies ltd, Hyderabad, India – *Software Intern* **April 2017- Jan 2018**
Worked on database designing and developed SQL queries in support of ongoing projects and application support. Created and tested data models for reporting analysis. Troubleshoot and resolved performance-related issues

PROJECTS:

- **PixelGram [React JS, Node JS, Python, Docker, Jenkins, Kubernetes, Kafka, JMeter, SQLite DB]:** **Jan 2020 – May 2020**
  Designed and developed a distributed systems based web application with five microservices for uploading, downloading, sharing, and organizing photos. Established communication between microservices using the RabbitMQ server. Containerized the microservices on a Kubernetes cluster running on a Jetstream instance and deployed on a fault-tolerant CI/CD setup using Jenkins.
- **Movie Recommendation System:** **Feb 2020**
  Developed a model using python to predict the movies for the users based on the past records of movies and user ratings. I used cosine similarity for the content based method and matrix factorization for the collaborative filtering technique.
- **Online Restaurant Management System:** **Jan 2019**
  Designed a web application for a restaurant to select items from the menu and place an order. The front end has been developed using React and the backend has been designed using python and SQLite DB.
- **POS Tagging:** **Mar 2021**
  Developed an NLP system for part-of-speech tagging, trained probabilistic models to tag the parts of speech of words in a sentence using Naïve Bayes, Viterbi, and MCMC algorithms.
- **Route finder:** **Feb 2021**
  Implemented A* search Algorithm and a heuristic function to find the shortest/quickest route between two cities considering constraints like distance, time, and safety. Haversine distance has been used as the heuristic to improve the accuracy.
- **Smart Vehicle and Smart Parking System:** **Jan 2018 – April 2018**
  Developed a prototype of an autonomous vehicle with the capability of accident detection, theft detection, obstacle detection, and intelligent braking system. Used the AT Mega 328 (Arduino) microcontroller with different sensors and also the Internet of things (IoT) for implementing smart parking system

TECHNICAL SKILLS:

Programming languages	**:**	C, C++, C#, Java, Python, SQL
Frameworks/Technologies	**:**	HTML, CSS, Bootstrap React JS, Node JS, ASP.Net, AWS, MySQL, Mongo DB, SQLite
Machine learning libraries	**:**	matplotlib, NumPy, Pandas, scikit-learn, TensorFlow
Tools	**:**	GitHub, Jira, TFS, SQL Server Management Systems, Visual Studio, Eclipse, PyCharm
DevOps & Cloud technologies	**:**	Docker, Kubernetes, Jenkins, Kafka, JMeter, AWS

CERTIFICATIONS:

- HTML, CSS, and JavaScript for Web Developers - Coursera
- Python Data Structures and algorithmic toolbox – Coursera
- Complete Python Bootcamp - Udemy