NIKITHA KRISHNA VEMULAPALLI

nvemulap@usc.edu | +1 (571) 639-7541 | Los Angeles, CA, 90007
linkedin.com/in/nikitha-krishna-vemulapalli | github.com/vnikithak

EDUCATION

University of Southern California, Los Angeles, CA   **August 2019-May 2021**
Master of Science in Computer Science (Data Science)   GPA: 3.85/4.0
Courses: Analysis of Algorithms, Foundations of Artificial Intelligence, Machine Learning for Data Science, Database Systems

Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India   **August 2015-June 2019**
Bachelor of Engineering in Computer Science and Engineering   GPA: 9.3/10
Courses: Data structures, Operating Systems, Software Engineering, Data Science and Big Data Analytics
Award: Silver medal for Academic Excellence (2017-18)

SKILLS

Programming/Scripting Languages: Python, R, C/C++, Java, PHP, HTML5, CSS3, JavaScript, SQL
Operating Systems: Windows, Linux, MacOS
Tools: Bootstrap, RStudio, Apache Tomcat, Appium Studio, Android Studio, Weka, Git, jQuery

WORK EXPERIENCE

TeraSoftware Limited, Hyderabad, India- Database Analyst   **June 2018 -July 2018**
- Designed the structure of a database in MySQL to store data related to electricity, cable and phone connections.
- Maintained logs for the malfunctioning of the power stations to assist the support team.
- Managed the tickets related to functionality of the database by checking the stored procedures.

PROJECTS

Artificial Intelligence   **August 2019-November 2019**
- Designed a game-playing agent using alpha-beta pruning and achieved a 90% winning streak against other agents.
- Designed algorithms for breadth-first search, Uniform-cost search, A* search with an accuracy of 98% over 50 test cases.
- Programmed an agent to perform proof by resolution with 84% accuracy over 50 test cases.

Fraudulent application detection   **August 2018-March 2019**
- Collaborated with a team of two in building an application to detect fraudulent applications in the Google Play Store.
- Performed sentiment analysis on the user comments using Python and functional testing on the applications.
- Interpreted that analysis of an application requires both sentiment analysis and testing of application.
- Presented a technical paper at BITS Hyderabad to an audience of renowned faculty members in the country.

Sentiment Analysis on YouTube comments   **February 2018-March 2018**
- Performed Sentiment Analysis on YouTube comments using NLTK package and TextBlob in Python.
- Obtained an overview of positive, negative and neutral comments in terms of percentages.
- Provided an accuracy of 93%.

Dynamic website for the Pradhan Mantri Awas Yojana (PMAY)   **September 2017-October 2017**
- Developed a dynamic website for the PMAY scheme using HTML/CSS, PHP, MySQL.
- Provided the ability for the users of the scheme to check the status of the application.
- Allowed the admins to update the status of applications of the users.
- Solved a real-world problem mentioned in the Smart India Hackathon and reached quarter finals.

College Database   **January 2017- March 2017**
- Developed a menu-driven database of files in C++.
- Stores the data of faculty and students separately.
- Provides the functionalities to add, delete, update details of students and faculty.

LEADERSHIP AND INVOLVEMENT

- Mentor for two graduate students in the Viterbi Graduate Mentorship Program.
- Member of Autonomous Vehicle Lab at University of Southern California.
- Secured sixth place in Technopoly, an inter-college level coding competition.
- Coordinator for the inter-college level coding competition: KodeCrypt conducted on 21st-22nd of October 2016.
- Organizer in the Infrastructure department of Carpediem, a biennial cultural fest of Chaitanya Bharathi Institute of Technology.
- Mentored students as part of Teach for Change program.
- Won a second place in Badminton competition conducted as part of Shruthi-2019, the annual fest of Chaitanya Bharathi Institute of Technology.