KAKARLA NAGA SAI BHARATH

Course : **B.E. (Hons.)**, Computer Science, 2020
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CGPA : 7.74

ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Mathematics, Physics, Chemistry	SRI CHAITANYA JUNIOR COLLEGE	BOARD OF INTERMEDIATE EDUCATION,ANDHRA PRADESH	98.5 %	2016
CLASS X		GOWTHAM CONCEPT SCHOOL	BOARD OF SECONDARY EDUCATION, ANDHRA PRADESH	9.7 CGPA	2014

Subjects / Electives	Neural Networks and Fuzzy Logic, Cryptography, Machine Learning, OOPS, Computer Networks, Network Programming, Software Engineering, Operating Systems, DBMS, Information Retrieval, DSA
Technical Proficiency	C Programming, Python, Java, SQL, C++ Language, MERN, AWS, Machine Learning

SUMMER INTERNSHIP / WORK EXPERIENCE

Software Development Engineer, Amazon Development Centre   **Jul 2019 - Present**

Root Cause Analysis Automation,

- Currently working on a project where I am developing a tool which would automate the process the identifying the root cause whenever a ticket is cut for any issues related with the services of our team.
- This tool's functionality is to update the ticket with the details of the root cause and also provide some debugging items related to the issue which would help in resolving it.
- It is being developed in Java, along with the use of various AWS services like SNS, SQS, S3, Kinesis data streams and firehouse and also various other internal amazon services.

Software Development Engineer, UST Global Inc.   **May 2018 - Jul 2018**

Detection of vehicle's exterior parts and damages using object detection (Image Processing and Machine Learning),

- We developed a module where the user has to upload few images of a damaged car and the module identifies the parts of the car in the pictures and checks whether they are damages or not, if damaged it calculates the severity of the damage and displays the estimated cost to repair the car.

PROJECTS

Network Monitor System - Network Programming   **Feb 2019 - May 2019**

- Developed a system which detects malpractices during a lab examination such as usage of USB, accessing the internet, etc.
- udev, cron and system sockets were used to detect any USB connections by the clients and send the reports back to the server.
- Used the socket library of python to listen to the packets being sent and filtered out external connections and sent the details back to the server.

Student-Teacher Interaction Portal - Software Development   **Feb 2019 - May 2019**

- Developed an web application using MERN stack for student-teacher interaction.
- This application has various functionalities like a student can subscribe to the courses of which he wants to recieve updates, can send feedback on teachers anonymously, comment on posts made by the teachers, also for each subject there is discussion forum where the students can discuss among themselves.
- The teachers can post updates, alerts and any course work details corresponding to their subject and also participate in the discussion forums.

Detection of Anti-Patterns - OOPS and Machine Learning   **Aug 2018 - Dec 2018**

- The project was done formally under the guidance of Dr. Lov Kumar, Assisant Professor in the Department of Computer Science at BITS Pilani Hyderabad Campus.
- The project involved selecting software metrics and aggregation techniques to detect 5 types of anti-patterns present in various WSDLs using Machine Learning algorithms.

Search Engine - Information Retrieval   **Aug 2018 - Dec 2018**

- Developed a search engine that displays the relevant documents for the query entered.
- Performed pre-processing on the data and converted it into a vector space model.
- Implemented a python program which uses the TF-IDF model to rank the documents based on the search query and displays the documents in the decreasing order of TF-IDF score.

Quiz Generator - Object Oriented Programming and DBMS   **Aug 2017 - Dec 2017**

- Developed an basic application using Java and Java Swing as the front-end and SQL for databases.
- The application's functionality was to auto generate a quiz without repetition from a pool of questions based on some parameters like the user has the option of choosing the subject and the number of questions to be displayed.
- Also included an interface where a teacher can add a new set of questions to each subject for the students.

POSITION OF RESPONSIBILITY

Event Organiser of Passport Applications - BITS Pilani Hyderabad Campus   Sep 2017 - Jul 2018
- Handled the logistics for passport applications of over 200 students.
- Structured the detailed and pictorial descriptions of filling a passport application.
- Organized the transportation and the appointments at the passport office

Hostel Representative - Ram Bhawan (BITS Pilani Hyderabad Campus)   Sep 2017 - Aug 2018
- Takes care of all the problems related to the Hostel and gets them resolved by communicating with the authorities.
- Implemented various initiatives for the well-being of the hostel inmates.
- Worked with Students Union Council on various other campus related issues and initiatives.

Logistics Lead for Campus Ambassadors - Department of Publicity and Public Relations   Aug 2017 - Dec 2018
- Handled the logistics related to the Campus ambassadors for our Sports fest ARENA.
- Visited numerous colleges to publicize our fests.

EXTRA CURRICULAR ACTIVITIES

Member of Department of Publicity and Public Relations
Playing Basketball and Cricket
Member of Department of Visual Effects
Reading Novels
Member of Department of Sponsorship and Marketing
- Obtained a sponsorship worth 10k along with some other goodies from a GRE coaching institute for our technical fest ATMOS.

VOLUNTEER EXPERIENCE

NIRMAAN BITS Pilani Hyderabad Campus - Role: Volunteer | Cause: Education   **Aug 2018 - Feb 2019**
Scio Foundation - Role: Volunteer | Cause: Education   **Aug 2016 - Dec 2018**
Grandh BITS Pilani Hyderabad Campus - Role: Member | Cause: Education   **Aug 2016 - Present**

LANGUAGES KNOWN

French, English, Telugu, Hindi, Tamil