Ch. Ajay kumar

PERSONAL INFORMATION	
Student ID: 21071A04M8	
Father's name: Ch. Beeraiah	
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Aadhar number: 431589612773	
Date of Birth: 18th May, 2004	Age: 19 years

CAREER OBJECTIVE

To work with an organization which would offer a healthy work culture and a working environment which would enhance my skills and knowledge. To serve the organization in the best possible way with determination and hard work.

ACADEMIC CHRONICLE

Qualification	Name of the Board or University	Name of the Institute	Percentage or CGPA	Year of passing
Bachelor of Technology (Electronics and Communication Engineering)	JNTU - Hyderabad	VNR Vignana Jyothi institute of Engineering and Technology	8.2 (up to 6th semester)	2025
Intermediate	Board of Intermediate Education, Telangana	Narayana Junior College	98.8	2021
Class X	Board of Secondary Education, Telangana	Bhashyam high School	9.8	2019

SKILL SET

- **Programming Skills**
    i. C & DS
    ii. Java iii. Python

- **Tools:**
    i. Verilog and tanner tools
    ii. MATLAB Toolboxes:
        Simulink
        Control System
        Image Processing
        Signal Processing
        Symbolic Math   iii.   Multisim

CERTIFICATIONS & COURSES ACQUIRED

- Certified **in "SMART INDIA HACKATHON"** conducted by VNR Vignana Jyoti Institute of Engineering and Technology.
- Certified in "**PCB DESIGN AND APPLICATION DEVELOPMENT**" conducted by VNR Vignana Jyoti Institute of Engineering and Technology
- Completed a PYTHON PROGRAMMING COURSE conducted in VNR Vignana Jyothi Institute of Engineering and Technology and learnt the basics of Python programming, its applications in game design and database management.

INTERNSHIPS

- I worked as an online intern in **"SRI SASHA PRAYATHI TECHNOLOGIES PVT.LTD" on "VLSI SIGNAL PROCESSING".**

WORKSHOPS

- Attended Arduino Programming workshop held in VNR Vignana Jyothi Institute of Engineering and Technology .
- Attended "Design Appreciation Workshop" by "Mr. Jogendra Panghaal" conducted in VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad.
- Attended a workshop on Ethical Hacking conducted by Techienest at VNR Vignana Jyothi Institute of Engineering and Technology .

PROJECTS

S.no	1
Title of the project	Swadishta – A Recipe Application
Technology used	Android Studio, Java
Domain	Smart Mobile Application

Overview of the project	A recipe application for Android phones which takes ingredients as input in the form of either text, voice or image and provides a list of recipes that use these ingredients as main requirements. This application uses Edamam API for the recipe search and IMAGGA REST API to recognize the vegetables from an image. This application aims to make the process of cooking simple and the process of finding recipes simpler.
S.no	2
Title of the project	3D LED Cube
Technology used	Arduino Nano Technology
Domain	Micro Controllers
Overview of the project	This project used 64 LEDs to form a cube and this cube is illuminated in a pre-processed way, based on the code written. This cube also has the capacity to display a set of pre-programmed images in rapid succession, which appears in the form of animation. This concept is used to display various LED patters that we observe in malls or decorative lights.
S.no	3
Title of the project	Guess the word - Game
Technology used	Python Programming
Domain	User Interactive model
Overview of the project	A database is created with a list of words and a random word is chosen. The user has to guess the word. Ten chances are given to the player and each time the guess it wrong, a chance is lost. The player has to guess the word before all the 10 chances are elapsed to win the game.
S.no	4
Title of the project	Server – Client Communication
Technology used	Socket Programming
Domain	Wireless Communication
Overview of the project	An offline server – client connection is established by coding in C, such that any number of clients can interact with each other through their common point, the server. This communication finds its applications in Internet of Things and automation where it is necessary that the appliances interact.

S.no	5
Title of the project	Echo Generation
Technology used	MATLAB

Domain	Signal Processing
Overview of the project	An input audio signal is given to the code and by taking impulses with different strengths at a particular time interval an echo of the signal is obtained. This concept can be used to obtain various sound effects. It is used in movies, songs and other recordings wherever a sound effect is needed.
S.no	6
Title of the project	Smaran – An application to help Alzheimer's patients
Technology used	Android Studio, Java
Domain	Smart Mobile Application
Overview of the project	Alzheimer's is a disease that has no cure yet, but its effect can be prolonged. A patient of this disease slowly loses their intellectual senses and their memory. To aid such a person, we have made an application which is fed with details and schedule of the patients and then the application reminds the patient about their medicines, food and sleep.
S.no	7
Title of the project	Smart Rhymes
Technology used	Python, Cloud Technology
Domain	Internet of Things
Overview of the project	Using IBM cloud, the instructions and the response of the toy (integrated with this smart rhymes software) are given to the system. The toy can then interact with children and responds according to their wishes. Rhymes are played based on the request of the children or their parents.
S.no	8
Title of the project	Signature Verification
Technology used	MATLAB
Domain	Image Processing
Overview of the project	The original signature is saved in a folder and the program takes another signature from the user in .jpeg or .png format. The image is converted to black and white and based on the pixels, this signature is verified with the original one and the corresponding message is displayed. This is very useful in banks and other such sectors where security is of utmost importance.

INDUSTRIAL VISITS				
S. No.	Name of the company	Type of Industry	Domain	Description
1	Ananth Technology Limited	Electronics Manufacturing	Electronics and PCB Design	Observed the manufacturing of a Printed Circuit Board, alignment of components on it and testing of these boards which are used in various defence and navigation systems
2	Kwality Photonics	Electronics Manufacturing	Consumer Electronics	Observed to the various stages of creating LED chips and displays right from pin pressing, wire bounding, encapsulating to final inspection. The manual as well as automated methods of creating a final LED chip integrated on PCBs were demonstrated. The process of the creation of a seven-segment delay is also observed.
3	ASTRA Microwave Products Limited	Antennas	RF and Microwaves	Here we were exposed to the actual functioning and practical approach of industries towards antennas. We were able to relate the theory we have learnt and their formulae completely with the workings and calculations being done in this industry.
4	Centre for Cellular and Molecular Biology	Bio-Technology	Biomedical	Though this industry is not related to Electronics, it was fascinating to know and understand the latest technologies in that field and understand as an engineer, how we can support such biological establishments. It was interesting to know how Gene theory can be used to get a hold on criminals and other such applications.
5	Electronics Test Development Centre	Electronics and Information Technology	Quality Assurance	Observed the different testing, calibration and IT testing of various electronic equipment, systems and websites. This centre has a STQC (Standard Testing Quality Centre) where all the testing and certifications are carried out.

6	Central Institute of Tool Design	Designing of Tools	Designing and Manufacture of tools	The training of technical personnel is also done here. This institute opens its gates to the students who are willing to do their industry oriented mini and major projects under CITD.

ACHIEVEMENTS

- Obtained various merit certificates in literary events for Creative writing and poetry writing.
- Obtained scholarship sum of rs.10,000/- by citizen bank for getting good grades in 10th standard
- Obtained merit certificates for Essay Writing and Extempore in my tenth standard.
- Obtained scholarship sum of rs,1,05,000 college fee by government for gettong below 10k rank in eamcet

DECLARATION

I hereby solemnly affirm that all the information furnished above is true to the best of my knowledge and I understand that withholding or misstating any fact may result in the refusal for placement.