Sai Venkat Bala badruni

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Education

Degree
Course: B.Tech – Electronics and Communication Engineering
Institution & University: Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Chennai
Period: 2019-2023
CGPA: **7.85/10**

Higher Secondary Education
Subjects: Physics, Chemistry, Maths
Institution: Balaji junior college
Period: June 2017 - March 2019
Board: Andhra Pradesh State Board
Marks / Grade: 9.4

Secondary Education
Institution: Gayatri school
Period: June 2012 - June 2016
Board: Andhra Pradesh State Board
Marks / Grade: 9.5

Areas of Technical Interest:

- Embedded systems
- Web development

Skills:

- Coding languages :- C, C++, HTML, CSS, JS.
- Software's :- Fusion 360, CST, MATLAB, Arduino IDE, Auto CAD.
- Relevant coursework: Arduino IDE, ESP32, Bolt micro controller.

Certifications:

- Codedamn HTML, CSS, JS.
- MathWorks MATLAB onramp.

Project

Topic: College symposium website
Objective: To create a responsive website for the a college workshop and quizzes
Tools or techniques used: HTML, CSS, JS, SASS
Outcome: A responsive single page static website which shares the information to the viewers and redirects them to the registration form.

Topic: Pokémon API website
Objective: To create a website which fetches the data from an external API and shows the data in a readable manner.

Tools or techniques used: HTML, CSS, JS, SASS
Outcome: A responsive single page website which takes the input form the user as the name of the Pokémon or some number below 800 and shows the data of the respective input. User can also use random button to see a random Pokémon

Topic: Food calculator website
Objective: To create a website which helps my mother to calculate the food taken by students in their school based on the number of students, day, student type
Tools or techniques used: HTML, CSS, JS
Outcome: A website which can take input as day, number of students, type of student and gives the number of grams of food used for that day.

Topic: Morse code generator using Arduino
Objective: To make a circuit which takes input form the user and output in form of morse code
Tools or techniques used: Arduino UNO, basic circuiting, programing
Outcome: A circuit which takes input from serial monitor of the Arduino IDE and converts it in morse code and output with the help of a buzzer sound.

Topic: GSM based pet food feeder.
Objective: To make a device which feeds our pets by single message.
Tools or techniques used: Arduino UNO, Sim900a, Ultra sonic sensor, IR sensor, basic circuiting, programing
Outcome: A device which can pour food when the user sends a message from the mobile and it can also give the level of food remaining and weather the pet is near the device.

Topic: Echo generator.
Objective: To generate an echo to the audio or music given by the user.
Tools or techniques used: MATLAB, signal processing (Fast Fourier transform)
Outcome: A code which takes the input form the user and generates an echo with a given delay.

Internship / In-plant Training

Organization / Location: Bolt IoT
Objective: To learn about basics of IoT and ML
Tools or techniques used: Bolt micro controller.
Outcome: A weather clock which takes input form a user through a website. When the user enters city name, user can see the clock moves its pointer towards the weather that it got from an external API

Achievements, Scholarships, Honors, Contribution, etc:

- Name: Extra Language option to website (Flexbox foggy)
- Area / Topic / Details: I made changes to the code so that users can get an option to use the website in Telugu language.
- When & Where: The actual code is open source. I have edited it and made a pull request to repository in GitHub and it got merged on 12/02/2021

Extra-Curricular Activities:

. Worked as the Class representative in 2nd an 3rd semester
. Volunteered for organize a National Level Technical Symposium Connect@2021 on behalf of university in which our team had handled the commutation process with the participants.
. Volunteered for PHOBOS in campus technical symposium.

Personal details

- Date of Birth: 27/09/2001
- Language proficiency:
  English: Professional Working Proficiency
  Telugu: Native or Bilingual Proficiency
- Hobbies / Interests: Listening Music, DIY fun electronic projects

Place: Srikakulam Signature:

Date: 6/10/2021 (Name: B. SAI VENKAT)