



# SAIRAGHUNANDAN PULIBANDLA

B.Tech. - Computer Science & Engineering  
- Andhra Pradesh Campus

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## KEY EXPERTISE

C Java Python MySQL MongoDB HTML CSS Javascript ReactJS PHP PhpMyAdmin  
Full stack development Microsoft Office

## EDUCATION

### SRM Institute Of Science and Technology, Chennai

2020 - 2024

B.Tech. - Computer Science & Engineering - Andhra Pradesh Campus | CGPA: 7.65 / 10.00

### Sarada Educational Institutions, Vijayawada

2020

12<sup>th</sup> | BIEAP | CGPA: 7.96 / 10.00

### Sri Chaitanya Educational Institutions, Vijayawada

2018

10<sup>th</sup> | CBSE | CGPA: 7.56 / 10.00

## AWARDS AND SCHOLARSHIPS

- Broadridge - India Innovation Hackathon(Participated)

## INTERNSHIPS

### Oasis Infobyte

15 Mar, 2023 - 15 Apr, 2023

Web Development & Programming

Key Skills: Web Development Javascript HTML CSS

Its, a one-month Internship program consists of Tasks i.e. about 3 levels, First 2 Levels consist 3 Tasks each, and Level 3 as one Task i.e. pizza delivery application

### Salesforce, Smart internz, Smart bridge, AICTE

23 Jul, 2022 - 08 Oct, 2022

Salesforce Developer

Key Skills:

Salesforce Fundamentals Organizational Setup Relationship & Process Automation Types Of Flows & Security Apex

Testing & Debugging VS Code Setup & CLI Setup Lightning Web Components (LWC) & API Relationship & Process Automation

Lightning Web Components (LWC) & API

The Salesforce Developer Virtual Internship is designed for students and aspiring professionals with hands-on experience in Salesforce development. This internship will give the opportunity to work remotely with our experienced Salesforce development team and gain practical skills in customizing and configuring Salesforce solutions to meet business needs.

## PROJECTS

### Mini Twitter Clone Full-Stack Project

13 Sep, 2023 - 15 Sep, 2023

Team Size: 1

Key Skills: MongoDB Express.js React.js NodeJS GraphQL Javascript

**Project Link:** [https://github.com/sairaghunandanpulibandla/AP20110010793\\_Mini\\_Twitter\\_Clone\\_using-the-MERN-Stack\\_MongoDB-Express.js-React.js-Node.js](https://github.com/sairaghunandanpulibandla/AP20110010793_Mini_Twitter_Clone_using-the-MERN-Stack_MongoDB-Express.js-React.js-Node.js)

User Authentication: Implement user registration and login functionality to allow users to create accounts and log in securely.

User Profiles: Create user profiles that display user information, including their profile picture, username, bio, and follower/following counts.

Tweet Posting: Enable users to compose and post tweets, including text and possibly media (images, videos, or links).

Tweet Feed: Develop a feed that displays tweets from the user's followers in reverse chronological order, allowing users to see the latest tweets from those they follow.

Following/Followers: Implement the ability for users to follow and unfollow other users. Users should also be able to view a list of followers and those they are following.

Likes and Retweets: Allow users to like and retweet tweets, displaying the number of likes and retweets on each tweet.

Notifications: Provide notifications for actions such as new followers, likes, and mentions.

Search Functionality: Add a search bar that enables users to search for other users or tweets based on keywords or hashtags.

Real-Time Updates: Use technologies like WebSockets to achieve real-time updates of the feed and notifications without the need for manual page refreshes.

Responsive Design: Ensure that the web application is responsive and accessible on various devices and screen sizes.

Database Integration: Store user data, tweets, likes, and other relevant information in a database (e.g., MySQL, MongoDB).

Tech Stack:

Front-end: HTML, CSS, JavaScript, React (or another front-end library/framework of your choice).

Back-end: Node.js, Python, Ruby on Rails, or another back-end framework.

Database: MySQL, MongoDB, or a database of your choice.

Authentication: Implement user authentication using a library like Passport.js (Node.js) or Devise (Ruby on Rails).

Real-Time Updates: Use WebSocket libraries such as Socket.io or native WebSocket support.

Deployment:

Host your application on a cloud platform like AWS, Heroku, or Netlify.

Additional Considerations:

Security: Implement proper security measures to protect user data and prevent common vulnerabilities (e.g., SQL injection, XSS attacks).

Testing: Write unit and integration tests to ensure the reliability of your application.

User Experience: Pay attention to the user interface and experience to create an engaging and user-friendly platform.

Scaling: Consider how the application would scale if it were to have a large user base.

### Web Development project - "Art Vista" A Virtual Art Gallery

10 Jul, 2023 - 18 Jul, 2023

Team Size: 1

Key Skills:

Web Development Front-End Web Development HTML CSS Adobe XD Tailwind CSS Bootstrap UI/UX Design Github  
Github pages

**Project Link:** <https://github.com/sairaghunandanpulibandla/TDP-Vista-Web-Development-Task-Submission-Virtual-Art-Gallery>

A virtual art gallery called "ArtVista." ArtVista aims to bring the experience of visiting an art gallery online, allowing users to explore and appreciate a wide range of artworks from different artists and genres. The website should provide an innovative and visually captivating user experience, focusing on showcasing the artworks in a creative and interactive way. Utilizing HTML, CSS, JavaScript, and possibly additional frameworks like Three.js or A-Frame, users can explore virtual rooms, zoom in on artwork details, participate in virtual tours, and filter through categories effortlessly. With an intuitive user interface, dynamic content management, and a commitment to regular updates and user feedback, this virtual art gallery aims to provide a captivating and ever-evolving art experience accessible to art enthusiasts and the general public alike.

### Undergraduate Research Opportunity Project (UROP) - "AI-Driven Systems For Computer Vision Problems"

16 Aug, 2022 - 23 Dec, 2022

Mentor: Dr. Meenakshi Choudhary | Team Size: 6

Key Skills:

Computer Vision Digital Image Processing CNN Python TensorFlow keras Matplotlib Pandas NumPy seaborn  
google colab

A Plant Leaf Disease Detection GUI (Graphical User Interface) is a user-friendly software interface that allows users to upload or capture images of plant leaves for disease analysis. After image input, the GUI runs a disease detection algorithm and displays the detected disease(s) along with confidence scores and recommendations for treatment, making it accessible to users with varying levels of expertise. The interface features intuitive controls, multi-language support, and options to save results, while also ensuring privacy and security. Overall, this GUI simplifies plant disease diagnosis, combining advanced image processing and machine learning with a user-friendly design to aid farmers and researchers in managing plant health effectively.

## Hands on Python - Create an MP3 Music Player

15 Oct, 2021 - 25 Nov, 2021

**Mentor:** Dr. Ajay Bhardwaj | **Team Size:** 1

### Key Skills:

Python Tkinter PyQt Pygame pydub Threading UI framework Input Handling Error Handling Testing and Debugging Packaging and Distribution

Designed and developed a feature-rich MP3 music player in Python, utilizing Tkinter and pygame for the user interface and audio playback, respectively. Integrated eyed3 for metadata extraction, ensuring song title, artist, and album information display. Implemented multi-threading to maintain UI responsiveness during audio playback, along with playlist management features for adding, removing, and selecting songs. Incorporated error handling mechanisms to address various scenarios, and conducted thorough testing and debugging using unittest and pdb. Packaged the application as a standalone executable for convenient distribution.

## Digital Electronics - Touch switch project(Acadamic)

16 Nov, 2021 - 21 Nov, 2021

**Mentor:** Dr. Sibendu Samanta | **Team Size:** 6

### Key Skills:

Arduino Raspberry Pi PIC Programming Altium Sensor Interfacing Digital Logic PCB Design Troubleshooting Power Supply Design Safety Precautions Project Documentation Creative Problem Solving

A touch switch project involves building a switch that can be turned on or off by simply touching a conductive surface. This project typically employs a microcontroller and a touch sensor. When you touch the sensor, it sends a signal to the microcontroller, which then toggles a connected load (e.g., an LED or a relay). It's a practical and hands-on introduction to digital electronics and microcontroller programming. A touch switches apparatus for detecting the presence of an object such as a human appendage, the apparatus having a switch and a local control circuit connected to the switch and to a controlled device. The control circuit is preferably in integrated circuit form Electronic on/off-switch for a load connected to an a-c supply network, including a controlled semiconductor switch connected in a series circuit with the load, and control circuit.

## SEMINARS / TRAININGS / WORKSHOPS

### One-Day Online Workshop on "How to Write and Publish a Research Article?"

19 Aug, 2023 - 19 Aug, 2023

**Institute Name:** Department of Computer Science and Engineering, SRM University - AP, Andhra Pradesh

**Key Skills:** LaTeX Overleaf Microsoft Word

### Code-Clash 2.0 Competition

17 May, 2023 - 17 May, 2023

**Institute Name:** Coding Club at SRM University AP

**Key Skills:** C python

### APP DEV 2.0 Workshop

10 May, 2023 - 10 May, 2023

**Institute Name:** ADD Club, held at SRM University - AP, Andhra Pradesh

**Key Skills:** UI/UX Design App Development Figma

### Workshop on Hands-on Web Development with HTML,CSS, and JavaScript

26 Apr, 2023 - 26 Apr, 2023

**Institute Name:** Full Stack Development Club, held at SRM University - AP

**Key Skills:** HTML CSS Javascript Full Stack Development

### Faculty Development Programme on Advancements in Computational Biology and Healthcare

17 Apr, 2023 - 21 Apr, 2023

**Institute Name:** Department of Electronics and Communication Engineering,SRM University - AP, Andhra Pradesh

**Key Skills:** Computational Biology Healthcare

### Genesis of a Professional: From Campus to Corporate seminar

19 Apr, 2023 - 19 Apr, 2023

**Institute Name:** Vadati Club at SRM University AP

**Key Skills:** Communication

### Workshop on Hands-on Real-world Applications of Machine Learning and Deep learning

12 Apr, 2023 - 12 Apr, 2023

**Institute Name:** AI/ML Club, held at SRM University - AP

**Key Skills:** AIML Deep Learning Machine Learning

### Code-Clash competition

17 Mar, 2023 - 17 Mar, 2023

**Institute Name:** Coding Club at SRM University AP

### Hands-on "The Fundamentals of Linux and Data Analytics"

22 Sep, 2022 - 23 Sep, 2022

**Institute Name:** Organised by: \_VOIS, Vodafone Idea Foundation, Connecting Dreams Foundation, SRM University - AP, Amaravati

**Key Skills:** Linux Data Analysis Power BI

### India Quiz Competition on the eve of Independence Day

14 Aug, 2021 - 14 Aug, 2021

**Institute Name:** SRM University AP

**University Distinguished Lecture titled “Higher Education in India in the Post COVID-19”**

05 Jun, 2021 - 05 Jun, 2021

**Institute Name:** organized by SRM University-AP, in association with India's national newspaper, "The Hindu"  
University Distinguished Lecture titled  
“Higher Education in India in the Post COVID-19” delivered by Prof.  
Anil D. Sahasrabudhe, Chairman of AICTE, and a special address by  
Shri Satish Chandra, IAS, Special Chief Secretary, Higher Education,  
Government of Andhra Pradesh. It is organized by SRM University-AP,  
in association with India's national newspaper, "The Hindu"

**One Day National Symposium on High Energy Physics**

01 May, 2021 - 01 May, 2021

**Institute Name:** Department of Physics,SRM University - AP

## EXTRA CURRICULAR ACTIVITIES

- Photography club - Team forward member (ongoing)
- Entrepreneurship Cell-Saurvi - Associate Team member - (Aug 2022 - Feb 2023)
- Vadati club - Team forward member - (ongoing)
- ADD(App Design & Development) club - Team Forward member - (ongoing)

## PERSONAL INTERESTS / HOBBIES

- Sports, Professional Video games, Watching Veritasium, Think School, and Adventure movies

## WEB LINKS / IMs

- WhatsApp - 9849703549
- Github - <https://github.com/sairaghunandanpulibandla>
- Codechef - <https://www.codechef.com/users/sairaghunandan>

## PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

**Current Address:** DCC Aishwarya Flats, near Potheri Railway Station,  
Potheri, Chennai, Tamil Nadu, India - 603203

**Date of Birth:** 11 Jul, 2002

**Known Languages:** English,Telugu

**Permanent Address:** 70-11-74,Srinivasa Avenue, Donka Road,  
Patamata, Vijayawada, Andhra Pradesh, India - 520010

**Phone Number:** +91-9849703549

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