SREEVARDHAN TALUCHURI

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EDUCATION

Vellore Institute of Technology, Bhopal *2024*
Bachelor's in Computer Science and Engineering **GPA: 8.61/10**

Sri Chaitanya Junior College, Kothapet, Hyderabad *June 2020*
Class XII Telangana Board of Secondary Education **Percentage: 94.7%**

Johnson Grammar School, Hyderabad *June 2018*
Class X Indian Certificate of Secondary Education **Percentage: 85.6%**

INTERNSHIP

Vir Innovations Private Limited, Hyderabad *January 2022 - Present*
Role: Full Stack Developer Intern.

1. **WEB and Mobile Applications:**
   a. VIR Innovations Landing Page:
      i. Built my first landing page yet responsive in nature.
      ii. Added smooth animations using Framer Motion.

   b. Vendor Registration App:
      i. Built my first mobile app using ionic react.
      ii. App collects a lot of data about different vendors and stores it in a Amazon S3 bucket.
      iii. Learned how to create a express server for mobile applications\

   c. Smart Poultry:
      i. Built a web app for displaying live sensor data and data analysis for sensors deployed in different poultry farms.
      ii. Got to learn and implement MQTT protocol
      iii. Making it simple for clients to install new sensors
      iv. Created a EC2 instance where we deployed a website and a server. Created a Dedicated database cluster in MongoDb Atlas

2. **R&D:**
   a. MMG:
      i. Controlling a Medium Machine Gun Mount using a joystick.
      ii. Getting the shaft position and button status using pygame library in Python
      iii. Sending instructions to move the mount via udp packets.
   b. ROD:
      i. Controlling a Multi-Un-Manned Ground-Vehicle using joystick
      ii. Learned to control motors of rover using PWM.
      iii. Displaying real-time cameras stream in the Ground Control Station.
      iv. By adopting a low-cost tablet, we were able to cut the total cost of the Ground Control Station by 40%.
   c. SAWS:
      i. Built a prototype of Smart Automated Weapon System.
      ii. Has two modes manual and auto
      iii. In manual mode, once a region of interest is selected, the camera module starts following the region.
      iv. Learned and Implemented serial-based communication.
   d. Robotic Buddy:
      i. A rover used for surveillance and a guidance system to Motor Fire Controller with added feature of person detection and tracking.
      ii. Displaying LIDAR, DMC, GPS, Altitude sensor data in a simple webpage in real time.
      iii. Camera module can be controlled via Manual and Auto mode.
      iv. The webpage contains buttons indicating directions for the camera module to move.
      v. Auto mode can track the person.

e. Water Drone:
   i. A drone used for surveillance of water bodies
   ii. Sending GPS, SONAR values from rover to the Ground Control Station via Bluetooth.
   iii. Storing the GPS and SONAR data in separate files in the Ground Control Station in real-time.
   iv. Displaying the sensors data in a webpage
   v. Learned and Implemented web-socket based communication between python server and react webpage.

LANGUAGES AND TECHNOLOGIES

- Programming Languages: JAVA, Python, Go, JavaScript, TypeScript.
- Frontend web technologies: HTML, CSS, React.
- Server-side web technologies: Node, Express, Mongoose, MQTT.