

JIGNESH RANA

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EDUCATION

Atharva College Of Engineering, Mumbai
Bachelor's of Engineering Information Technology

October 2022-Present
CGPA: 8.89/10.0

Shri Bhagubhai Mafatlal Polytechnic, Mumbai
Diploma in Information Technology

August 2019-June 2022
Percentage: 89.87%

SKILLS

Core Languages	DSA, Computer Networks, Database Management System, Java, Machine Learning, Data Mining and Warehousing, Advance DBMS, Operating System, Advance Algorithm
Languages	Python, C/C++, C#, Java, PHP, ASP.NET, Javascript, Flask, Django, HTML/CSS, Express, SQL, MongoDB, Flutter, Oracle Database, JDBC, Java Swing
Technical Skills	Andriod Studio, Git, Responsive Design, Integration and Authentication, Problem Solving, Microsoft Excel
Achievements	VNPS National Level Project Presentation Competition- 1st RunnerUp, National Level Project & Paper Presentation Competition- 1st RunnerUp, State Level Competition- 1st Consolation, IJRASET Paper Publication

EXPERIENCE

WEQ Technologies, Web Developer (Intern) | Mumbai

June 2021 - Aug 2021

- Worked as Backend Web Developer
- Used Node.js for backend in their on-going project
- Managed Routes, implemented validation and authentication
- Also integrated project with database

PROJECTS AND PUBLICATIONS

Agro Drone | IOT & ML based Drone for Agricultural Domain

Jan 2022 - Apr 2022

- Develop a drone that autonomously flies over a predefined path to capture videos of crops, fruits, and vegetables, storing the footage on an SD card.
- Use the captured video as input for a machine learning algorithm to assess the condition of the crops, and implement object avoidance to halt and wait for obstacles to clear before continuing its path.

Agro Dew | IOT based System for Agricultural Domain

Jan 2024 - Mar 2024

- Developed an irrigation system using embedded technology to enable remote motor activation via a GSM module, allowing control through SMS commands from any location.
- This system eliminates geographical constraints and ensures efficient water flow to farmlands by seamlessly triggering the irrigation motor remotely.

Android Function Generator | Research Paper Published in IJRASET Journal **July 2022 - Dec 2022**

- The paper describes an Android app that functions as a generator for electrical waveforms such as sine, square, and sawtooth waves
- This app aims to make generating AC signals, typically used in labs, accessible via smartphones, offering practical use in remote locations where traditional generators are impractical to transport