

BANDARU VENKATA NAGA MAHESH

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Portfolio Website: <https://maheshbvn.github.io>

EDUCATION

Course/Degree	Institution	Grade	Year of Passing
Bachelor in Computer Science	VJIT	8.58	2025
Intermediate	Narayana Junior College	97.2	2021
Secondary School	Narayana School	9.50	2019

SKILLS

Programming Languages - Python, Java, C, Linux
Web Development - HTML, CSS, JS
DataBase Languages - SQL(mysql)
Technical Skill - Data Structures and Algorithms
Tools - VS Code, Jupyter Notebook, CLI, MS Excel

CERTIFICATIONS

- **Fundamentals of C** - Cisco
- **Python, Zero to Hero** - Udemy
- **Java Fundamentals** - Oracle
- **Smart Coder** - Smart Interviews
- **DSA** - AlgoExpert
- **Salesforce Developer** - SmartBridge

CODING PROFILES

- **LeetCode**: https://leetcode.com/mahesh_2004
- **HackerRank**: <https://www.hackerrank.com/profile/bvnmahesh2004>

WORK EXPERIENCE

Kyndryl | Tech TraineeMay 2025 - Present

- Provided Level 1 support for Linux-based infrastructure by monitoring system health, analyzing logs, and resolving basic system issues.
- Performed routine system checks and maintenance to ensure server stability and performance.
- Handled user account management, process-related issues, and responded to incidents through internal ticketing systems.
- Supported file system housekeeping activities, system cleanup tasks, and resource optimization under the guidance of senior engineers.

INTERNSHIPS

Salesforce Virtual Internship

May 2024 - July 2024

- Successfully completed an 8-week virtual internship focused on Salesforce development and administration. Gained hands-on exposure through guided Trailhead modules and super badges, covering core Salesforce concepts, automation, and development tools.
- Completed modules of Salesforce fundamentals, org setup, process automation, Apex debugging, flows & security, LWC, API integration, and VS Code with CLI setup.

PROJECTS

1. Real-Time Traffic Management for Ambulances using Machine Learning

- Engineered an emergency vehicle prioritization management system to automatically adjust traffic signals based on ambulance detection.
- Integrated a 1-Dimensional Convolutional Neural Network (1D CNN) for precise audio recognition with a visual detection system to enhance visual processing, achieving a **20% reduction** in response times.
- Achieved **96% accuracy** in the audio model for detecting emergency vehicle sirens and **92% accuracy** in the video model for identifying ambulances under diverse traffic scenarios.

2. QuizCraft: A Comprehensive Tool for Building, Engaging, and Sharing Quizzes

- Developed an intuitive web application for creating and customizing interactive quizzes with **personalized question sets** and **scoring**.
- Integrated **MongoDB** for robust storage and retrieval of user logins and quiz data, enabling seamless user access to both created and shared quizzes.
- Implemented efficient front-end and back-end connectivity, enhancing user experience through real-time **quiz building, playing, and sharing** features.

RESEARCH PAPER

Title : Real Time Traffic Management for Emergency Vehicles *[Springer]*

- Conducted a detailed study and presented research on innovative traffic management techniques, focusing on optimizing emergency vehicle response by integrating real-time ambulance detection with vigorous traffic signal adjustment.
- Explored cutting-edge methods for combining audio and visual data, providing insights into improving the efficiency of traffic systems and proposing advancements in real-time analytics.

ACHIEVEMENTS

- Awarded 1st Prize in Poster Presentation at 4th International Conference on Nanomaterials & Technologies (CNT-2024) for the topic Traffic Management for Emergency Vehicles.

HACKATHONS

- Participated in Internal Level Hackathons at VJIT , 2021 and 2023.
- Internal Smart India Hackathon at VJIT, 2023.