# Nikhil Teja Tangella

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## SUMMARY

Passionate software developer with expertise in Python, SQl, AWS, and Node.js, currently serving as a Lead Technical Writer at Honeywell. Over two years of experience in software development and technical documentation, with a strong background in teaching as a Graduate Teaching Assistant for Data Mining and C/C++ at the University of New Haven. Holds a Master's in Computer Science from the University of New Haven and a B.Tech in Computer Science. A strong collaborator, innovative problem-solver, and adept at bridging technical knowledge with effective communication.

## WORK EXPERIENCE

**LEAD TECHNICAL WRITER -** May 2024 – Present                **Honeywell** – Northford

- Lead the creation and management of technical documentation using tools like Adobe FrameMaker and MadCap Flare.
- Collaborate with cross-functional teams, including engineers and product managers, to develop clear and concise user manuals, installation guides, and online help systems.
- Ensure consistency, accuracy, and adherence to company and industry standards in all documentation.
- Optimize and maintain content management systems to streamline document updates and improve version control.
- Mentor junior writers and provide guidance on best practices in technical writing and documentation.

**TEACHING ASSISTANT -** Jan 2023 - May 2024        **University of New Haven** – West Haven, CT

- Teaching Assistant for Courses Data Mining, Intro to AI, Intro to C/C++.
- Teaching Assistant for Courses in Windows Networking, Java, and Database.
- Help Students in Labs and explain about the Course.
- Clearing Doubts of the Students In-Person, Solving Problems together.

**TECHNICAL WRITING INTERN -** June 2021                **GeeksForGeeks** – India

- Published Articles on GeeksforGeeks Website.
- Articles mainly focused on Python, SQL, HTML, and Java.

# PROJECTS

**Portfolio Website Using Node.js and Vue,js** 2023

Designed and implemented a full-stack project to demonstrate proficiency in frontend and backend development. Utilized Vue.js for frontend development, creating a single-page application with multiple components and seamless data communication with a Node.js server deployed on Netlify. Developed backend functionality to serve JSON data through an API endpoint using MongoDB. Adhered to specific project guidelines and submission format, ensuring proper documentation and organization. Received commendation for active participation in discussions and successful project demo.

**Windows Network Administration** 2023

Technologies Used: Windows Server, Active Directory, Group Policy, Networking. Configured a basic Windows network administration setup, including user account creation, computer management, and shared folder access. Implemented Active Directory for centralized authentication and managed user roles and permissions. Set up shared folders with appropriate access control, ensuring secure and organized file sharing. Configured Group Policy settings to enforce security policies and streamline administrative tasks.Created and managed user accounts and computer objects within the Windows domain network.Gained hands-on experience in system administration and network security principles.

**IoT Smart Plant System** 2023

Technologies Used: IoT, TinkerCAD, Sensors, Arduino.Developed an IoT-based smart plant monitoring system to automate plant watering and notify users about soil moisture levels. Utilized moisture sensors to detect low water levels and automatically trigger a notification system. Designed the system using TinkerCAD for virtual simulation and Arduino for hardware integration. Implemented an alert mechanism to send messages when water is insufficient and when the soil reaches adequate moisture. Enhanced system efficiency by optimizing sensor data collection and response time. Provided a cost-effective and scalable solution for smart gardening and agricultural applications.

**Grocery Store Website (Django)** 2022

Technologies Used: Django, Python, HTML, CSS, SQLite. Designed and developed a dynamic grocery store website using Django, allowing users to browse and purchase products online. Implemented user authentication with secure login/logout functionality to provide a personalized experience. Developed a product catalog with categorization, search, and filtering features to enhance usability. Integrated a shopping cart system that enables users to add, remove, and update items before proceeding to checkout. Implemented an order management system where customers can track their orders and admins can manage inventory. Utilized SQLite for efficient database management, ensuring smooth data retrieval and storage. Designed a responsive and visually appealing front-end using HTML and CSS to enhance user engagement. Ensured website functionality through rigorous testing, fixing bugs, and optimizing performance for a seamless user experience.

**Hand Gesture Detection** 2022

Implemented an artificial intelligence project focusing on hand sign detection using artificial neural networks (ANN). Developed a system capable of recognizing hand signs through image processing techniques and neural network training. Utilized deep learning frameworks and image processing libraries to preprocess input images and train the neural network model. Achieved accurate detection and classification of hand signs, demonstrating proficiency in machine learning and computer vision techniques.

**Crop Life Prediction using Machine Learning** 2022

Developed a crop life prediction system using machine learning techniques. Leveraged technologies such as Machine Learning, AWS, Flask, HTML, and CSS to create a user-friendly interface. The system enables users to determine the health status of crops and identifies potential causes of crop death through machine learning algorithms. By analyzing various factors, the system provides insights into crop health, aiding farmers in timely intervention and decision-making.

**Online Assignment Portal** 2021

Developed an online assignment portal using HTML, PHP, and CSS technologies. The portal facilitates faculty members in uploading assignments and directly sending results to students' emails. Additionally, students can access assignment questions submitted by faculty members, enhancing communication and efficiency in the assignment submission process.

**Online Voting System Using MySQL** 2020

Designed and implemented an online voting system using MySQL. Leveraged SQL commands, including triggers, to develop a robust voting system. The system enables users to participate in voting processes and ensures data integrity through SQL database management.

## EDUCATION

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|---|---|---|
| 2022 - 2024 | Master's Degree (Computer Science) at **University of New Haven** | (GPA: 3.94/4.0) |
| 2018 - 2022 | Bachelor's Degree (Computer Science) at **Vignan's University** | (GPA: 3.8/4.0) |
| 2016-2018 | Class 12th Board of Andhra Pradesh | Marks(963/1000) |
| 2016 | Class 10th CBSE | (CGPA:9.8/10) |

## CERTIFICATIONS

**Coursera:**

- Introduction to Web Development

- Python

- Introduction to Structured Query Language

**APSSDC:**

- AWS

**Cisco:**

- PCAP: Programming Essentials in Python

- Introduction to Cybersecurity

**LinkedIn Skill Assessments:**

- HTML

- JavaScript

## TECHNICAL SKILLS

**Programming Languages:** Java, C, Python, JavaScript, R, C++.

**Web Development:** HTML, CSS, JavaScript (Front-End Development), Web Application Development, Vue.js, Node.js , Django

**Database Management:** SQL, Database Management System (DBMS), MongoDB, SQLite

**Cloud Technologies:** Amazon Web Services (AWS), Cloud Infrastructure, Cloud Computing

**Data Science and Machine Learning:** Big Data, Data Mining, Artificial Intelligence (AI), Machine Learning, Python (Programming Language), R (Programming Language), Weka.

**Microsoft Server skills:** Active Directory,Virtualization.

**Other Skills:** FrameMaker, MadCap Flare,IoT, TinkerCAD, Sensors, Arduino.