ASHISH VARAKUNTI

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CAREER OBJECTIVE

"Detail-oriented Electronics and Communication Engineering graduate with a strong passion for information security and cybersecurity. Good knowledge in AWS cloud services and OLLAMA applications. Committed to continuous learning and contributing to team success through collaboration, problem-solving, and adaptability.".

EDUCATION

B. Tech - **Sri Indu College of Engineering and Technology, Hyderabad**
Electronics and Communication Engineering - CGPA 7.8

Class XII - **Sri Saanvi Junior College, Hyderabad**
Telangana Board of Intermediate Education (TSBIE) – 954/1000

Class X – **Bright Grammar School, Mahbubnagar**
Telangana Board of Secondary Education - GPA-9.2

SKILLS SUMMARY

Languages: JAVA, PYTHON, SQL

Front End Technologies: Html, CSS, Js, Bootstrap

Version Control: Git, GitHub

Frameworks: Spring 6, Spring boot 3, Thymeleaf, Hibernate

Tools: MySQL, Maven, Postman

IDEs/Code Editors: Visual studio code, IntelliJ IDEA, Eclipse IDE

Soft skills: Rapport building, Active listener, Adaptability, Creativity

EXPERIENCE

Role: PROJECT ENGINEER INTERN

Soft Pledge — Bangalore, Karnataka   JULY 2024 – PRESENT

- Assisted in the development of web applications using **Java**, **Spring Boot**, and **Hibernate** to support the team in delivering client-facing solutions.
- Contributed to the front-end design and implementation with **HTML**, **CSS**, and **JavaScript**, gaining hands-on experience in responsive web design.
- Wrote and optimized **SQL** queries to interact with relational databases, ensuring efficient data storage and retrieval.

PROJECTS

Project-1: SMART WATER IRRIGATION SYSTEM-IOT

- A water quality monitoring system can protect the environment, secure local water sources, and support economic growth in rural areas. This project uses IoT technology to assess water quality, determining its suitability for consumption. Sensors measuring TDS, pH, and turbidity in water from wells, lakes, or rivers send real-time data to an IDE, then to a cloud server for analysis.

Project-2: CHATBOT FOR EDUCATIONAL INSTITUTIONS

- A chatbot is a software program that engages in conversations via text or voice, assisting users with tasks like answering questions, helping with purchases, and improving customer service. While many chatbots rely on AI and machine learning, this project focuses on using AI with Python to provide accurate and efficient responses to user queries.

Project-3: EMPLOYEE MANAGEMENT SYSTEM

- This Employee Management System is a CRUD application built with **Spring Boot** and key starters like spring-boot-starter-web, spring-boot-starter-data-jpa, spring-boot-starter-thyme leaf, spring-boot-starter-security, and spring-boot-starter-validation. With Spring Security for role-based access, it provides a secure solution for managing employee profiles, job roles, and data tracking—streamlining HR tasks and organizational administration.

Project-4: Design & Control of a Wireless DTOF LIDAR Using LD19

- The LD19 system combines a laser ranging core, wireless communication, angle measurement, and motor driving units. Using DTOF technology, it measures distance 4500 times per second by emitting an infrared laser, calculating the time of flight to determine distance. Key use cases include autonomous navigation, 3D mapping, and environmental monitoring, where real-time, high-precision distance measurements are critical for mapping, obstacle detection, and dynamic navigation.

CERTIFICATIONS:

- Full Stack Programming (HTML, CSS, Java, JavaScript)
  Udemy – Certificate of Completion
  Gained hands-on experience in web development, covering front-end (HTML, CSS, JavaScript) and back-end (Java) technologies.

- Spring & Spring Boot, Thymeleaf, Hibernate, and Spring Boot Starters
  Udemy – Certificate of Completion
  Developed expertise in creating and managing Spring-based web applications, utilizing Spring Boot for rapid development, Thymeleaf for templating, and hibernate for object-relational mapping. Focused on best practices, Spring Boot starters, and integrating database operations.