

Pakalapati Hima Sri

Jogannapalem, Eluru , Andhra Pradesh, 534450

pakalapatihimasri@gmail.com — linkedin.com/in/himasri38 — github.com/himasri-24 — +91 8328183838

Objective

Passionate final-year B.Tech student with a strong academics of Python, Java, HTML, CSS, JS and SQL. Seeking a challenging role in software development to apply and further develop technical expertise. Eager to contribute to innovative projects, enhance my practical experience, and grow within a progressive organization.

Education

Bachelors in Data Science

2022 - 2026

Vignan's Nirula Institute of Technology and Science for Women, Guntur *CGPA - 8.62* (Till Now)

Intermediate in MPC

2020 - 2022

Sri Chaitanya Junior College, Vijayawada

CGPA - 8.8

High School

2019 - 2020

Sri Sai English Medium High School , Gangannagudem

CGPA - 8.4

Skills

- **Frontend** - HTML, CSS, JS
- **Programming** - Python , Java
- **Databases** - SQL , Excel
- **Tools** - Visual Studio Code
- **Softskills** - Problem-Solving, Communication, Teamwork

Projects

Smart Traffic Control with Ambulance Detection:

Developed an IoT-based traffic management system to prioritize ambulance movement for emergency response. Created a solution where traffic signals automatically change to red for all roads except the one the ambulance is traveling on, based on real-time data. Implemented a manual override feature allowing traffic police to press a button for specific roads, triggering the system to prioritize the ambulance route. Integrated sensors, microcontroller programming, and IoT protocols to enable real-time communication and dynamic traffic signal adjustment, improving response times for emergency vehicles. Designed a scalable solution that can be adapted for use in smart city infrastructure, optimizing traffic flow during emergencies.

Diabetic vision impairment:

Diabetic Retinopathy (DR) is a diabetes-induced eye disease that can cause blindness if not detected early. This project uses a Convolutional Neural Network (CNN) to analyze retinal images and classify DR into different severity levels. Implemented with TensorFlow/Keras and GPU acceleration, the model applies feature extraction, data augmentation, and dropout regularization to enhance accuracy. Evaluated using metrics like accuracy and precision, it provides an efficient and scalable solution for early diagnosis, assisting healthcare professionals in timely treatment.

Resume Builder:

Developed a Resume Builder web application using Node.js, Express.js, and MongoDB, enabling users to create, save, and manage resumes with authentication and draft-saving features. Implemented secure user authentication with bcrypt for password hashing, designed RESTful API endpoints for user management and resume operations, and structured the backend using Express.js. Integrated MongoDB with Mongoose for efficient data handling, ensured secure cross-origin requests with CORS, and managed static file serving. The project provides a seamless experience for users to build and update resumes efficiently.

Portfolio Website:

Developed a personal portfolio website using HTML, CSS, and JavaScript to professionally showcase academic and technical projects. Designed a responsive, user-friendly interface highlighting key projects such as a Resume Builder, Smart Traffic Control System, and Diabetic Retinopathy Detection. Integrated GitHub repositories and live demo links for real-time project access.

Certifications

- The Joy of Computing Using Python-NPTEL
- Introduction to Html and CSS(Basic),Python Bootcamp For Beginners-Udemy
- Excel Skill,Data Analytics and Visualization-JPMorgan Chase Co
- Programming Fundamentals Using Python-part1,Part2-Infosys

Publications

- Segmenting Customers Using K-means Clustering-Paper Publication by Journal of Emerging Technologies and Innovative Research

Achievements

- Achieved a 5-star rating in java in HackerRank
- Certified by HackerRank in Java
- Actively participated in competitive programming on CodeChef, solving multiple challenges and improving problem-solving skills (1-star rating)