

# Bhupalam Lakshmi Rohit

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Rohit Bhupalam — **Portfolio Website**

G-4, Lakshmi Enclave, Adarsh Avenues, near HP petrol pump, Nizampet, Hyderabad-500090

## Objective:

An aspiring Software Engineer with a passion for technology and a knack for problem solving. Skilled in Java, Python, and Frontend Web Technologies, I am dedicated to growing in the field of software development. With experience in responsive web design, MERN stack development, and interest in innovative technologies such as AI and IoT, I am looking for opportunities to apply my knowledge in impactful projects.

## Education:

- **B.Tech in Computer Science and Engineering**  
Guru Nanak Institute of Technology, 2021–2025  
GPA: 8.5
- **XII – Narayana Junior College, 2021**  
Result: 96%
- **X – Thiruthangal Nadar Vidhyalaya, 2018-19**  
Result: 94.5%

## Projects and Certifications:

- **Responsive Website Development**  
Nxtwave — Built many static and responsive websites using HTML/CSS with Flexbox and Bootstrap.
  - Developed highly responsive web pages optimized for both desktop and mobile viewing using Flexbox and Bootstrap.
  - Incorporated CSS animations and design principles to enhance user experience.
- **To-Do List Web Application**  
[GitHub] [Live Demo]  
May 2023  
Technologies used: HTML, CSS, JavaScript, Bootstrap, FontAwesome, LocalStorage - Developed an interactive To-do web application that helps the individuals to list their daily tasks with completed and delete tasks functionality; changes will be persisted even after the session.
  - Utilized Bootstrap for layout design and styling, ensuring a mobile-friendly interface.
  - Implemented JavaScript functionality for adding, editing, deleting, and marking tasks as complete.
  - Leveraged LocalStorage to persist user tasks across sessions without a database.
- **VoiceGPT2 — AI-Powered Voice Assistant**  
[GitHub] [Live Demo]  
January 2025  
Technologies used: Python, Flask, SpeechRecognition, edgeTTS, PyDub, HTML/CSS, OpenRouter(using Mistral API) - Developed an interactive voice chatbot that captures user speech, processes it through advanced AI models, and responds audibly.
  - Built a Flask-based web application that captures microphone input and transcribes speech to text using the SpeechRecognition library.

- Integrated OpenRouter to interface with Mistral AI's large language models, enabling dynamic and context-aware conversational responses.
- Converted AI-generated text responses back to speech using Google Text-to-Speech (edgeTTS) and played them through the web interface.
- Built a minimal HTML/CSS frontend featuring microphone controls and real-time response playback.

- **AI Stock Analysis Dashboard Application**

[GitHub] [Live Demo]

March 2025

Technologies used: Python, Flask, Plotly, yFinance, Pandas, JavaScript, Cohere Vector Embeddings, faiss, Openrouter LLM - Developed an interactive stock analysis dashboard to visualize financial trends, research tool and download historical performance.

- Implemented integration with Yahoo Finance API via **yFinance** to fetch real-time and historical stock market data.
- Designed interactive charts (candlesticks, moving averages, volume) using Plotly with custom styling for better visualization.
- Built a Research Tool which accepts URL/CSV/Text data and used vector embeddings and faiss for faster responses from LLM.
- Developed a Flask-based web app with clean HTML/CSS/Bootstrap UI and deployed on Render for analysis demonstrations also allows users to export statistical data in excel format.

- **Automatic Weather-Based Wallpaper Change System**

[GitHub]

Technologies used: Python, Bolt IoT, LM35, LDR, Make (Integromat), Mailgun API, Pixabay API - Built an IoT-based system that dynamically changes desktop wallpaper based on real-time weather data acquired from sensors.

- Interfaced LM35 temperature sensor and LDR with the Bolt IoT module for real-time environmental data acquisition.
- Developed Python scripts to process sensor data, detect anomalies using Z-score, and determine ambient weather conditions.
- Integrated Make (Integromat) to automate fetching weather-themed wallpapers from Pixabay and update them on the desktop.
- Configured optional email notifications using Mailgun to send weather updates and image links directly to the user.

- **An Dynamic Data Shared with RSA-Based in Cloud Environment**

[GitHub]

2024 GNIT

Technologies used: Java, J2EE, JSP, RSA Cryptography, SHA, MySQL

Developed a secure cloud-based system to ensure dynamic data sharing with strong cryptographic mechanisms for integrity and confidentiality.

- Designed and implemented a secure document sharing framework using RSA-based accumulators and SHA algorithms.
- Enabled dynamic data operations such as insertion, deletion, and update with secure verification.
- Integrated modules for Client, Agency, and CSP with authentication, key-sharing, and approval workflows.

- **Food Order Project using MERN Stack**

Webstack Academy — May 2024

Developed full-stack application using the MERN stack(Food Order Project :- OrderIt).

- Built an Food Ordering platform with integrated payment gateways (Stripe).
- Made Effective use of React components, MongoDB Database, ExpressJS and used PostmanAPI for seamless communication.

- **NetFlix — Netflix-Inspired Static Webpage**

[Live Demo]

Technologies used: HTML, CSS Flexbox, Bootstrap, CSS animations

- Developed a single-page website emulating Netflix’s homepage layout and design aesthetics.
- Implemented a structured layout using semantic HTML5 elements and CSS Flexbox for flexible and adaptive design.
- Styled components to mirror Netflix’s branding, including navigation bar, hero section, and content thumbnails.

#### **Tech Stack:**

- **Programming Languages:** Python, Java, JavaScript, Apex(basic)
- **Web Development:** HTML, CSS, Bootstrap, ReactJS, Flexbox, Flask
- **Data Analysis:** Pandas, Plotly, matplotlib
- **Deployment tools:** AWS, Render
- **Database Management:** SQLite, MongoDB
- **DevOps Tools:** Git, Github Actions
- **Other Tools:** Salesforce CRM, Cloudinary, Stripe, PostmanAPI, Mailgun
- **Other:** Data Visualization, Machine Learning, IoT

#### **Trainings and Internships:**

- **Salesforce Developer Virtual Internship**, April-June 2024
- **MERN Stack Web Development Internship**, Webstack Academy
- **IoT and Machine Learning**, Bolt IoT, August 2021

#### **Languages:**

- English, Hindi, Marathi, Tamil, Telugu

#### **Achievements:**

- **Delegate for Sweden at GNIMUN (Guru Nanak Institutions Model United Nations)**  
Demonstrated research, public speaking, and diplomacy skills by representing Sweden in a simulated international summit.
- **Published IoT Project on Hackster: Automatic Weather-Based Wallpaper Change System**  
Documented and published a complete DIY guide on Hackster.io demonstrating how to build a real-time weather-responsive wallpaper system using Bolt IoT, sensors, and Python automation.
- **Built an Immersive VR Chess Tournament Environment using Frame VR**  
Created a virtual world for hosting an immersive online chess tournament. Designed 3D models. The project was recorded and documented on YouTube.
- **Published a Presentation on the James Webb Space Telescope (JWST) on Slideshare**  
Researched and created a comprehensive presentation on the history, scientific objectives, and technological advancements of the James Webb Space Telescope.
- **Participated in Robotics Competition as a part of Robotics Club GNIT (e-Yantra by IIT Bombay)**