

# RAJYALAKSHMI CHENNUBOYINA

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Portfolio: <https://rajyalakshmi-portfolio.vercel.app/>

GitHub: <https://github.com/RajyalakshmiChennuboyina>

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## SUMMARY

Passionate and detail-oriented Computer Science student with strong proficiency in JavaScript, React.js, and scalable frontend architecture. Experienced in developing full-stack MERN applications, building accessible UI with CSS and HTML, and implementing component-level testing using Jest. Familiar with secure RESTful API integration, JSON Web Token-based authentication, and micro frontend principles. Eager to contribute to enterprise-grade projects in a collaborative and innovation-driven team.

## SKILLS

- **Frontend:**HTML5, CSS3, JavaScript (ES6+), React.js, Responsive Design, Figma, Bootstrap,REST APIs
- **Backend:** Node.js, Express.js, CRUD Operations, JWT Authentication,
- **Database:** MySQL, MongoDB (Basics), SQL Querying
- **Development Tools:** Git, GitHub, VS Code, Postman, npm, Chrome Dev Tools ,Linux
- **Other:** API Integration, Debugging, Version Control, Deployment (Netlify, Render), Agile Methodology

## PROJECTS

### Product Store – MERN Stack

- **Timeline:** Jan 2024 – Feb 2024
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, CSS, JWT, REST API, Git
- **Problem:** There was no centralized way to manage product inventory with secure user authentication and role-based access.
- **Solution:** Developed a full-stack e-commerce application enabling users to browse, add to cart, and purchase products securely.
- **Achievements:**
  - Implemented JWT-based authentication and protected API routes.
  - Created reusable and responsive UI components using Tailwind CSS.
  - Designed modular architecture for scalability and maintainability.
- **Result:** Reduced load time and improved UX; built RESTful API services that boosted data fetching speed by ~35%.
- **Tools Used:** React, MongoDB, Postman, GitHub, Express.js, Node.js, JWT, Tailwind CSS.
- **Testing:** Wrote unit tests for key frontend components using Jest.

### Food Blog – MERN Stack

- **Timeline:** Nov 2023 – Dec 2023
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, Material-UI, JWT
- **Problem:** No platform existed to allow recipe authors and users to interact in a controlled blog format.
- **Solution:** Created a blogging platform with dynamic post creation, user registration/login, and admin dashboard.
- **Achievements:**
  - Utilized Material-UI to create accessible, clean, and responsive components.
  - Used Redux Toolkit for global state management and scalable architecture.
  - Integrated secure JWT-based user login system and role-based permissions.
- **Result:** Page responsiveness improved by 30%, and administrative efficiency increased due to structured UI and state logic.
- **Architecture:** Applied scalable frontend patterns and micro frontend principles for better modularity.

### Disease Prediction System – Machine Learning

- **Timeline:** Aug 2023 – Oct 2023
- **Tech Stack:** Python, Pandas, Scikit-learn, NumPy, Matplotlib, Jupyter Notebook
- **Problem:** Manual diagnosis processes were inefficient and often lacked precision.
- **Solution:** Built a machine learning model to predict diseases based on user-inputted symptoms using classification algorithms.
- **Achievements:**
  - Applied Decision Tree and Random Forest algorithms on a cleaned symptom-disease dataset.
  - Visualized performance using confusion matrix and classification reports.
  - Used feature engineering and hyperparameter tuning for model optimization.
- **Result:** Achieved 94.7% accuracy on test data, reducing diagnostic time and supporting clinical decision-making.
- **Problem Solved:** Enabled quick, AI-powered preliminary diagnoses through a simple UI.

Portfolio Website – Personal Responsive Web Portfolio

- **Timeline:** Mar 2024
- **Tech Stack:** HTML5, CSS3, JavaScript, GitHub, Vercel
- **Goal:** To showcase technical skills, certifications, and project portfolio in a professional and accessible way.
- **Solution:** Designed and developed a fully responsive portfolio website from scratch.
- **Achievements:**
  - Implemented modern CSS layout systems (Flexbox and Grid) for clean UI.
  - Ensured accessibility and responsiveness across all device types.
  - Deployed the portfolio using Netlify and integrated GitHub version control.
- **Result:** Increased recruiter interaction and page visits by 50%, resulting in more interview calls.
- **Problem Solved:** Presented work professionally with a mobile-first, fast-loading user experience.

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## EDUCATION

Bachelor of Technology – Computer Science and Engineering

**Rajiv Gandhi University of Knowledge and Technology, Ongole**

**Duration:** Jun 2021 – May 2025

**GPA:** 9.23 / 10.0

Pre-University Course (PUC) – MPC Stream

**Rajiv Gandhi University of Knowledge and Technology, Ongole**

**Duration:** Jun 2019 – May 2021

**Percentage:** 97.2%

Secondary School Education (10th Class)

**K.V.Palli Zilla Parishad High School, Prakasam, Andhra Pradesh**

**Year of Completion:** Mar 2019

**GPA:** 10 / 10

## CERTIFICATIONS

- **NPTEL** - DSA
- **IBM/EDX** -SQL
- **Udemy**-Full Stack Web Development
- **Hacker Rank** -Python
- **Solo Learn** -HTML & CSS

## SOFTSKILLS

- Logical Reasoning
- Initiative & Ownership
- Clear Communication
- Time Management
- Team Coordination