

# MARY RIYA TERRANCE

Full-stack Developer | Cloud & DevOps Engineer

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## PROFESSIONAL SUMMARY

Computer Science graduate with hands-on experience in full-stack development, DevOps workflows, and cloud technologies. Proficient in building Python-based web applications, managing Linux systems, and deploying scalable solutions using Docker and AWS. Strong foundation in databases, networking concepts, and automation across the software development lifecycle.

## EDUCATION

Bachelor of Technology in Computer Science & Engineering:- Rajadhani Institute of Engineering and Technology |KTU University 2021 – 2025| Trivandrum, Kerala, India | (CGPA: 6.8)

## SKILLS

### Technical Skills

- **Programming:** Python, Bash
- **Frameworks & Libraries:** Django, Pandas
- **Web Technologies:** HTML, CSS, JavaScript
- **Databases:** MySQL, SQL
- **Cloud & DevOps:** AWS, Docker
- **Operating Systems:** Linux (Ubuntu, CentOS)
- **Networking:** TCP/IP, Routing, CCNA Concepts
- **Tools:** GitHub, PyCharm, VS Code, Cisco Packet Tracer

### Soft Skills

- Problem Solving
- Team Collaboration
- Communication Skills
- Adaptability
- Time Management

## PROJECTS

### Biometric Attendance System Using Facial Recognition (2024)

- Developed a secure biometric attendance system using real-time facial recognition.
- Implemented Python-based image processing with OpenCV and integrated MySQL for attendance data storage.
- Designed responsive frontend components using HTML, CSS, and JavaScript.

**Technologies:** Python, OpenCV, MySQL, HTML, CSS, JavaScript

### Blood Group Detection Using Fingerprint (2025)

- Developed a system to predict blood groups from fingerprint patterns for emergency medical applications.
- Implemented backend logic using Python and Flask with image processing support from OpenCV.
- Integrated SQL database for data storage and designed the frontend using Angular and Bootstrap.

**Technologies:** Python, Flask, OpenCV, SQL, Angular, Bootstrap

### **Weather Desktop Application (2025)**

- Developed a desktop GUI application to fetch and display real-time weather data using the OpenWeatherMap API.
- Implemented REST API integration, error handling, and dynamic weather updates for improved reliability.
- Designed a responsive user interface with CSS and emoji-based weather mapping for enhanced user experience.

**Technologies:** Python, PyQt5, REST APIs, CSS

### **Bash Automation Suite – Linux System Scripts (2025)**

- Developed a mini library management system to automate book tracking and user management using Bash scripting.
- Created an interactive CLI-based calculator supporting arithmetic operations and unit conversions.
- Built a secure password generator with customizable options and basic encryption logic.

**Technologies:** Bash Shell, Linux (Ubuntu)

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## **COURSES**

### **CCNA (2025)**

- Network fundamentals, OSI & TCP/IP models, IP addressing, and subnetting
- Routing and switching concepts including OSPF, EIGRP, VLANs, STP, ACLs, and NAT
- WAN, VPN, SD-WAN, and high-availability networking concepts
- Fundamentals of network automation and infrastructure concepts

### **RHCSA (2025)**

- Linux system administration on RHEL/CentOS including user and group management
- File systems, permissions, process management, and system monitoring
- Service management using systemd and system troubleshooting
- Shell scripting and advanced Linux command-line operations

### **AWS (2025)**

- Core AWS services including EC2, VPC, IAM, Security Groups, and NACLs
- Cloud networking, secure infrastructure design, and OS hardening
- Infrastructure automation using AWS CloudFormation
- Monitoring and logging using CloudWatch

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## **CERTIFICATIONS**

- **Java Software Developer** – Infosys Foundation Finishing School for Employability Program
- **Hackathon Participant** – Dekathon 2.0 (Indo-Malaysian International Hackathon), Project on Solid Waste Management
- **IEEE Technical Workshop** – Biped Robotics
- **TATHVA Technical Workshop** – Data Privacy & Protection, AutoCAD, SketchUp, Self-Driving Electric Vehicle