

PRABU JAYANT

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EDUCATION

RV College of Engineering, Bangalore

B.E. Computer Science (Cybersecurity), GPA: 8.75

2022 – 2026

EXPERIENCE

Juniper Networks — Jul 2024 – Feb 2025

- Engineered a **data processing pipeline** using an **SSL proxy** to decrypt and monitor **SaaS traffic**, enabling real-time analysis and the generation of a **large-scale labeled dataset**.
- Developed and integrated a **classification service** to categorize network activities, achieving **98% accuracy** for known services and **83% for new, unseen services**.
- Designed a **validation model** to ensure the system's robustness in identifying both known and unknown traffic patterns, contributing to **enhanced network visibility**.

SkySecure Ltd — Nov 2023 – Dec 2023

- Designed and implemented a **real-time network intrusion detection pipeline** with a three-stage architecture for **data preprocessing, threat prediction, and automated response**.
- Built the **backend system** that processed network packets, applied a detection model, and triggered alerts, achieving **92.8% detection accuracy** and a **94.2% F1-score**.

PROJECTS

DefenSys: Intelligent Cyber Defense Platform — Python, Flask, React, Docker, Redis, TensorFlow

- Developed a **full-stack cyber defense platform** with a **Flask backend** and a **React dashboard** for **real-time IP blacklisting** and threat visualization.
- Utilized **Docker** to create a **containerized IoT network environment** for simulating and testing against **DDoS attacks** performed with Apache Bench.
- Built a backend service with a **Redis message queue** for **distributed defense** and automated alerts across the network.

Terra: Smart Carbon Footprint Tracker — Python, Flask, React, Firebase, OCR

- Engineered a **full-stack carbon footprint tracking application** featuring a **Flask backend**, **Firebase** for user authentication, and **Firestore** for data persistence.
- Developed **REST APIs** to connect the backend with a **React frontend**, enabling seamless user experience for data entry and emissions tracking.
- Integrated third-party APIs (**OpenFoodFacts**) and an **OCR service (EasyOCR)** to automate data capture from product labels.

OnlyCabs: Intelligent Ride-Hailing Platform — React Native, Firebase, Python, Node.js, Express.js

- Architected a **scalable ride-hailing app** with a **microservices-based backend**; built secure **REST APIs** using **Flask** and **MongoDB** to manage user, booking, and payment data.
- Developed a **ride allocation microservice** using **Node.js** and **Express.js** to optimize driver matching and routing logic.
- Engineered a **cross-platform mobile application** using **React Native**, integrating **Firebase** for **real-time driver tracking** and booking management.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, SQL

Technologies: Flask, Node.js, React, Express.js, MongoDB, Firebase, Docker, Git

Core Concepts: Data Structures, Algorithms, System Design, OOP, OS, Networks

LEADERSHIP & VOLUNTEERING

Event Management Lead, Google Developer Student Clubs (GDSC-RVCE)

Aug 2023 – Present

- Organized and managed "Tech Tank," a university-level hackathon with over **500+ participants**, fostering innovation and collaborative problem-solving.

ACHIEVEMENTS

- Achieved 4th place in **CODE RED'25 Hackathon** (BMSITM, Top 1% of 1000+ teams).
- Ranked **Top 10** in **ELCIA Next-Gen Hackathon** (IIITB, 500+ teams).
- Published research on **Intrusion Detection in Network Traffic Using LSTM at IEEE Conference**.
- Co-authored papers: Smart Health Monitoring using IoT & AI (ICoICI 2024), Adaptive ML for SaaS Traffic Classification (ICWIHI 2025), DefenSys: An Integrated Platform for Malware Detection and Containerized Attack Simulation Using Deep Learning (ICOSEC 2025).