

Royson Dsouza

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PROFESSIONAL SUMMARY

Dedicated Computer Science Engineer with strong skills in software development, problem-solving, and database management. Seeking to contribute and collaborate with a team and apply expertise in coding and automation. Aiming to drive innovation and efficiency in software solutions.

INTERNSHIPS

Vision Flow Technologies

Feb. 2025 – May.2025

Full-stack developer (Intern)

- Developed and maintained MERN stack web applications with seamless frontend-backend integration.
- Implemented API endpoints, optimized database queries, and improved UI/UX for enhanced user experience.

Codelab Systems

Oct. 2023 – Nov. 2023

Front-end developer (Intern)

- Collaborated with software engineers to develop and test application procedures for system efficiency.
- Demonstrated time management, organizational skills, prioritization and planning skills by successfully handling tasks and projects.

PROJECTS

AyurSkin.ai: Deep Learning for Skin Disease Detection with IKS-Based Remedies

- Built a CNN model to predict skin diseases (e.g., Acne, Eczema, Melanoma) with a comparative study on ResNet and other architectures.
- Designed a Flask-based webpage for users to upload skin images, predict diseases, and receive IKS-based remedies.

EcoSentinel – Deforestation & Climate Monitor

- Built a full-stack MERN application leveraging Global Forest Watch (GLAD Landsat/Sentinel-2, PRODES) datasets to track deforestation trends and annual tree loss.
- Integrated OpenWeather API for real-time climate insights and water pollution tracking, enhancing environmental monitoring through interactive geospatial dashboards.

ZeroWasteX: Smart Waste Disposal System

- Developed an intelligent waste management platform that allows residents to schedule pickups and alerts collectors in real time.
- Integrated AI-driven route optimization using the OpenRouteService API to enhance waste collection efficiency. Built an interactive role-based dashboard for collectors to track requests, optimize routes, and manage pickups seamlessly.

EDUCATION

B.E (Computer Science) | 9.03

2023-Present

St Joseph Engineering College

Diploma (Mechanical Engineering) | 79.80%

May 2022

SNM Polytechnic College

PUC (XII) | 60%

May 2019

Sacred Heart P U College

SSLC (X) | 72.80%

April 2017

Holy Redeemer English Medium School

CERTIFICATES

- Programming Foundations with JavaScript, HTML and CSS | Coursera
- 100 days of code: The complete Python Pro Bootcamp | Udemy
- Project Management Fundamentals | Coursera

SKILLS

Python, Java, JavaScript, HTML, CSS, React.js, Express.js, Mysql, MongoDB, Git, Teamwork