

# RANJAN M

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## PROFESSIONAL SUMMARY

Dual-degree graduate in Computer Science and Data Science with strong expertise in Python, SQL, and backend development principles. Experienced in designing databases, writing optimized queries, building data pipelines, and developing logic-driven solutions to process large-scale datasets. Skilled in REST APIs, automation, and problem-solving. Seeking an entry-level Backend Developer or Software Engineer role to build scalable and efficient server-side applications.

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, SQL, HTML/CSS, JavaScript

**Frameworks:** .NET Framework, React.js, Node.js, Flask, Selenium

**DevOps & Cloud:** Docker, CI/CD, GitHub Actions, Oracle Cloud, Git

**Databases:** MySQL, PostgreSQL, MongoDB

**Core:** Data Structures, Algorithms, OOP, System Design, REST APIs, Linux

**Tools & Technologies:** Microsoft Excel, Power BI, Microsoft SQL Server, MS Office, MS PowerPoint

## PROFESSIONAL EXPERIENCE

### **Software Developer Intern - Final Year Project**

Squeez Infotech

Jan 2025 – Jun 2025

Madurai, India

- Developed automated tomato quality sorting system using Vision Transformers (ViT) achieving 95%+ classification accuracy
- Implemented end-to-end deep learning pipeline including data preprocessing, model training, and real-time inference deployment
- Built computer vision algorithms for image analysis and quality assessment reducing manual sorting time by 70%
- Integrated ML model with production system; optimized inference speed to process 50+ images per second

### **Data Analyst Intern**

Trainity

May 2024 – Jun 2024

Remote, India

- Analyzed 50K+ records using SQL queries and joins to generate actionable insights for cross-functional business teams
- Implemented data validation scripts ensuring 99% accuracy; optimized SQL queries improving performance by 40%
- Built reusable Python modules reducing code duplication by 50%; collaborated in Agile sprints
- Implemented a new reporting using Excel Pivot and VBA which help reduced processing time by 50%

## PROJECTS

### **Full-Stack Task Management System**

2026 React.js, Node.js, MongoDB, Docker

- Built full-stack app with authentication, CRUD operations, and real-time updates; implemented RESTful APIs handling 500+ concurrent requests
- Designed responsive frontend with React; integrated MongoDB with efficient indexing improving query performance by 45%
- Deployed using Docker containers with CI/CD pipeline on Vercel

### **Automated Tomato Quality Classification Using Vision Transformers**

2025 Python, Flask, Transformers

- Built Vision Transformer (ViT) model achieving 93% classification accuracy across 4 tomato quality classes
- Automated manual grading process, reducing inspection time by 70% and increasing consistency
- Processed and labeled 1,000+ images; applied preprocessing and augmentation to improve model generalization

## EDUCATION

### **Master of Computer Applications (MCA) | CGPA – 8.27**

2023 - 2025

PSNA College of Engineering and Technology Madurai, India

Coursework: Advanced Data Structures, Algorithms, DBMS, OS, Networks, Software Engineering, Cloud Computing

### **B.Sc. Computer Science & B.Voc. Data Science (Dual Degree) | CGPA – 8.1**

2020 – 2023

The American College, Madurai, India

Key Courses: OOP, Web Technologies, Computer Architecture, Theory of Computation

## CERTIFICATIONS

Oracle Cloud Infrastructure DevOps Professional (2025) | Deloitte Australia - Data Analytics Job Simulation (2025) | JPMorgan Chase Agile Simulation (2024) | Computer Vision Basics (2020)

**Languages:** English (Fluent), Tamil (Native)

**Availability:** Flexible with shifts, willing to work in 24/7 support environment