

RANJAN M

Madurai | ranjanm.exe@gmail.com | linkedin.com/in/ranjan-m | ranjanm.vercel.app

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

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

Data Analyst Intern

Trinity

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%.
- Analyzed bank loan data to determine factors influencing loan approval and defaults.

PROJECTS

Full-Stack Task Management System

2025 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)

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)

2020 – 2023

The American College, Madurai, India

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

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified DevOps Professional | Oracle | Oct 2025 - Oct 2027

Data Analytics Virtual Internship | Trinity | June 2024

Agile Job Simulation | JPMorgan Chase & Co. (Forage) | Apr 2024

Computer Vision Basics | Coursera | Sep 2020

Languages: English (Fluent), Tamil (Native)

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