

Dharun M

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Target Role: Software Engineer

Summary

Software Engineer with project-based experience in backend development and a strong foundation in **Computer Science fundamentals**. Proficient in building **scalable RESTful APIs** using **Node.js** and **Go**, managing **relational databases** with **PostgreSQL**, and implementing **object-oriented design**. Possess practical experience in **algorithm design** and **distributed systems** concepts, committed to delivering **high-quality software**.

Education

SRI VENKATESWARA COLLEGE OF ENGINEERING | Chennai, India | Oct 2022 - Present

B.Tech - Artificial Intelligence & Data Science

Technical Skills

Programming Languages: Java, Python, C, Go, Node.js

Core CS & Systems: Object-Oriented Design, Algorithm Design, Data Structures, Distributed Systems, Scalability, Problem Solving, Complexity Analysis

Databases & Tools: PostgreSQL, MongoDB, Git, GitHub, Postman

Relevant Experience & Projects

Tiered Access Content API | Project Repo: GitHub

- Enabled **scalable** content management for **2 user tiers** across **15+ endpoints** by architecting an API with **Node.js** and **Express.js**.
- Ensured **zero unauthorized access** by implementing **Role-Based Access Control (RBAC)**, secured via **JWT authentication**.
- Optimized query performance for a **relational database** by modeling a normalized **5-table PostgreSQL** schema to manage complex user subscriptions efficiently.

Pantry Management API

- Reduced potential food waste by **20%** by engineering a **Node.js** backend to track real-time inventory expiration and manage user data across **10+ CRUD endpoints**.
- Automated user alerts **3 days** before expiry by implementing a scheduled query system in **PostgreSQL** for proactive inventory management.
- Generated suggestions from **1000+ recipes** by building a logic engine to cross-reference available ingredients, enhancing user utility.

Resume CI/CD Pipeline

- Reduced resume customization time by **98% (30 mins to 30 secs)** by engineering an **automated pipeline** using **n8n** and the **Gemini API**.
- Achieved **zero-cost operation** for document generation by integrating **Typst** for programmatic PDF rendering, eliminating reliance on paid SaaS tools for efficient resource management.
- Optimized content relevance for ATS systems by implementing advanced **prompt engineering** techniques to parse and rewrite JSON data against live job descriptions, demonstrating **problem-solving**.

Awards and Achievements

- First Prize, TechTrivia** (Won 1st place in a college-level technical quiz covering **Data Structures and Algorithms**) , Apr 2025
- First Prize, DashWiz (PowerBI)** (Created a dashboard optimizing logistics tracking, selected best among 50 teams.) , Apr 2025
- First Prize, N8nate** (Architected an n8n workflow that automated certificate generation and emailing.) , Nov 2025

Leadership & Extracurricular Activities

Content Team Member | ACE - Computer Science Department Club

- Collaborated effectively with **cross-functional** design and event teams to plan and execute club activities, enhancing event visibility and attendance.
- Documented key outcomes and metrics through detailed post-event reports, contributing to a culture of continuous improvement and **problem-solving** within an **agile environment**.