

Dharun M

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Target Role: Software Engineer

Summary

Backend Engineer with foundational **Computer Science** knowledge, including **object-oriented design**, **algorithm design**, and **data structures**. Proven ability to build **scalable RESTful APIs** using **Node.js** and manage **relational databases** like **PostgreSQL**. Eager to design and implement innovative solutions in **large distributed computing environments**, contributing to **fault-tolerant** and **scalable** systems in an **agile** setting.

Education

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

B.Tech - Artificial Intelligence & Data Science

Technical Skills

Programming Languages & Core CS: *Java*, *Node.js*, *Go*, *C*, *Python*, *Object-Oriented Design*, *Algorithm Design*, *Data Structures*, *Problem Solving*, *Complexity Analysis*

Databases & Distributed Systems: *PostgreSQL*, *MongoDB*, *Relational Databases*, *Distributed Systems*, *Multi-tiered Systems*

Developer Tools & Methodologies: *Git & GitHub*, *n8n*, *Postman*, *PowerBI*, *Agile*

Relevant Experience & Projects

Tiered Access Content API | Project Repo: GitHub

- Managed content for **2 user tiers** across **15+ endpoints** by building a **scalable API** with **Node.js** and **Express.js** in a **multi-tiered system**.
- Enforced **zero unauthorized access** by implementing **Role-Based Access Control (RBAC)** secured via **JWT authentication**.
- Optimized query performance by modeling a normalized **5-table PostgreSQL** schema to handle complex user subscriptions and demonstrate **relational database** expertise.

Pantry Management API

- Reduced food waste by **20%** by engineering a **Node.js** backend to track real-time inventory expiration, demonstrating **problem solving**.
- Managed user data via **10+ endpoints** by constructing **scalable CRUD** operations, showcasing **algorithm design**.
- Automated user alerts **3 days** before expiry by implementing a scheduled query system in **PostgreSQL**.

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, demonstrating **problem solving** and cost-efficiency.
- Optimized content relevance for **ATS** systems by implementing advanced **prompt engineering** techniques to parse and rewrite **JSON** data against live job descriptions.

Awards and Achievements

- **First Prize, TechTrivia** (Won 1st place in quiz covering **Data Structures and Algorithms.**) , Apr 2025
- **First Prize, DashWiz (PowerBI)** (Optimized logistics tracking via dashboard, best among 50 teams.) , Apr 2025
- **First Prize, N8nate** (Architected an **n8n** workflow for automated certificate generation.) , Nov 2025

Leadership & Extracurricular Activities

Content Team Member | ACE - Computer Science Department Club

- Authored detailed post-event reports to document key outcomes and metrics for departmental review, demonstrating strong **communication** and documentation skills.
- Collaborated with the design team to create promotional materials, actively participating in the **agile** event management lifecycle for successful execution.