

DINESH T V

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OBJECTIVE

To obtain a position as a student intern from May 2025 to November 2025.

ACADEMIC QUALIFICATION

Currently pursuing 3rd year of 5 year Integrated M.Sc. Theoretical Computer Science at the Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

SKILL SET

Languages	C++, JavaScript, Python
Tools and Frameworks	CMake, Git, Jira, Docker, Figma, Postman, Swagger, PostgreSQL, MongoDB, ReactJS, NextJS, NestJS, ExpressJS
Platforms	Linux, Windows

AREAS OF INTEREST

- Software Development
- Systems Design
- Fullstack Web Development
- UNIX Systems

ACADEMIC RECORD

- **M.Sc Theoretical Computer Science** 2022-2027
PSG College of Technology, Coimbatore **8.3 CGPA**
- **XII (Higher Secondary, CBSE)** 2022
Suguna PIP School, Coimbatore **92.80 %**
- **X (Secondary, CBSE)** 2020
Suguna International School, Coimbatore **96.40 %**

INDUSTRY BASED PROJECT EXPERIENCE

- **Ven Softwares LLP | Fullstack Developer** *(June 2024 - November 2024)*
Working as a fullstack developer on a **B2B analytics application** with **ReactJS**. Implemented a custom **data visualization library** and worked with **version control APIs** viz., **GitHub** in the frontend, and created **RESTful APIs** with **Spring**. Played a key role in developing an **MVP**.

NON-ACADEMIC PROJECTS

- **ProLeap**: A web application, utilizing **React.js** and **Django REST framework**, manages **mentor sessions** and **surveys** with **real-time monitoring** and dynamic polling via websockets. Majorly contributed to the frontend development, designing **responsive** and **mutable components** to handle diverse data types effectively.
- **Darpanet**: A comprehensive **college festival/event management** system that integrates user registration, event coordination, team management, **real-time leaderboards**, and **detailed statistics** through a **unified backend**. Developed using **NestJS**, majorly contributed to the backend by building **RESTful APIs** and managing **Redis queues** for **asynchronous processing**.
- **Pigeon & Dove**: **Discord bots** to assist with **moderation** and handle moderator emails. Built comprehensive moderation solutions using **Sapphire.js** and hosted the bots on **AWS Lightsail** using Docker images, employing the latest **DevOps standards**. Additionally, created a sophisticated **entropy-based filtering system** to detect and filter **hate speech**.

ACADEMIC PROJECTS

- **BloomSync**: A CLI application is designed for seamless file **synchronization** between two **directories** on **UNIX systems**, built using **Python**. It efficiently handles file verification through a **bloom filter**, **minimizing computational** overhead and space usage. The synchronization process is automated and scheduled via a **cron job**.
- **Wizardo**: A password manager developed in **C++** and **.NET**, featuring a user-friendly GUI for **generating** and **retrieving passwords**. Employs **SHA-256** encryption to secure passwords, which are then stored locally. The application ensures both **robust security** and **ease of access** for managing sensitive credentials.
- **Mozart**: A full stack web application developed with **NextJS** and **NestJS** that tracks and **analyzes user** listening data from Spotify. It offers **personalized reports** to users, **providing insights** and **trends** to analyze user listening history. Also encompasses a dedicated **machine learning model** using **weighted KNN** to recommend songs based on previous listening history.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Currently serving as the **Deputy Secretary** for the Computational Sciences Association.
- **Secured 1st place** in **Idea Throne**, having presented a report and case study about **post-quantum cryptography**, amongst 10 finalist teams.
- **Secured 3rd place** in **Quadsparks**, a national level quiz competition hosted by IISc, with teams participating from **33 cities** in India.

DECLARATION

I, **Dinesh T V**, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore

Date : 20/11/2024

(Dinesh T V)