

Dinesh T V

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EDUCATION

PSG College of Technology

M.Sc Theoretical Computer Science CGPA: 8.35

Coimbatore, India

Aug. 2022 - Present

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, C++

Libraries and Tools: Git, Jira, Obsidian

Frameworks: Next.js, Express.js

Databases: MySQL, PostgreSQL, MongoDB

ACADEMIC PROJECTS

- **Mozart** An integrated music tracker and player built with Next.js, TailwindCSS and PostgreSQL.
 - Primarily built to track Spotify listening data in real time.
 - Created a full stack application using Next.js including a full-fledged API service.
 - Provides data such as top albums and artists for different intervals.
- **BloomSync** Command-line interface application built for file synchronization using UNIX systems.
 - Provides seamless file synchronization between two directories.
 - File verification is done using the bloom filter data structure - ensuring minimal computations and space requirements.
 - Synchronization is periodically done using a cron job.
- **Wizardo** Password manager written in C++ and .NET.
 - Provides a GUI for generating and retrieving passwords.
 - Passwords are encrypted using SHA-256 and stored locally in files.

NON-ACADEMIC PROJECTS

- **ProLeap** Web application for mentor sessions and surveys, built with React.js and Django REST frameworks.
 - Created a web application to move mentor sessions from Google Forms to a website
 - Student activity is saved in real time thereby enabling sessions restores.
 - Activities can be monitored in real time using an admin view and a live polling system based on websockets.
- **Pigeon and Dove** Discord bots assisting moderation and handling moderator emails.
 - Built comprehensive moderation solutions as Discord bots using Sapphire.js
 - Served under senior TypeScript developers to build functionalities to aid user and community management.
 - Hosted the bots on AWS Lightsail using Docker images, employing latest DevOps standards.

EXTRACURRICULAR ACTIVITIES

- **Member**, Astronomy Club: August 2023 - present
- **Secretary** March 2024 - present: Serving as the secretary for the Computational Sciences Association, which is part of my department.
- **Linux Enthusiast** and casual distro-hopper.