Dinesh T V

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EDUCATION

PSG College of Technology   **Coimbatore, India**
*M.Sc Theoretical Computer Science **CGPA: 8.25***   *Aug. 2022 - Present*

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, C++
Libraries and Tools: Git, Jira, Obsidian
Frameworks: React.js, Next.js, Express.js, Nest.

Databases: PostgreSQL, MongoDB, MySQL

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 filer data structure - ensuring minimal computations and space requirements.
  - Synchronization is periodically done using a chron 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.
  - Activites 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.