

# Dinesh T V

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## EDUCATION

**PSG College of Technology**

*M.Sc Theoretical Computer Science CGPA: 8.3*

**Coimbatore, India**

*Aug. 2022 - Present*

## TECHNICAL SKILLS

**Programming Languages:** C++, TypeScript, Python

**Libraries and Tools:** Git, Docker, Jira, Obsidian

**Frameworks:** ReactJS, NextJS, ExpressJS, NestJS

**Databases:** PostgreSQL, MongoDB, MySQL

## WORK EXPERIENCE

**Full-Stack Engineer**

*Ven Softwares LLP*

*June - December 2024*

- Worked as a fullstack developer on a B2B analytics application, utilizing ReactJS for frontend development and Spring for creating RESTful APIs on the backend.
- Implemented a custom data visualization library for business performance analytics and worked with version control APIs for GitHub to analyze code quality and employee performance.
- Played a critical role in designing and developing the MVP, contributing to both full-stack development and designing the workflow pipeline within the company.

## ACADEMIC PROJECTS

- **Mozart** An integrated music tracker and player built with NextJS, NestJS and PostgreSQL.
  - A full-stack web app built with NextJS and NestJS, offering insights into user listening trends on Spotify through personalized reports.
  - Integrates a custom weighted KNN model to recommend songs based on historical listening data, enhancing the user experience.
  - Tracks and analyzes listening history, offering comprehensive reports based on different time frames.
- **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.
- **Darpanet** Comprehensive event management solution built with NestJS
  - A comprehensive solution for college festivals, integrating user registration, team management and detailed statistics through a unified backend.
  - Major contribution to backend development with NestJS, creating RESTful APIs and managing Redis queues for efficient asynchronous processing.
  - Ensured smooth real-time updates for leaderboards and event data, using websockets.

## 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, contribution to open source.