

# Pratap Sakthivel

Software Engineer | AI & Full-Stack Development Enthusiast



## Contact

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## Skills

- Java (Core + OOP)
- Data Structures & Algorithms
- Git & GitHub
- Debugging & Logic Tracing
- Team Collaboration
- Time Management
- Generative AI & Prompt Engineering

## Language

- Tamil
- English

## Online Profiles

GitHub: <https://github.com/PratapSakthivel>

LinkedIn: [www.linkedin.com/in/pratap-s-587b0b342](https://www.linkedin.com/in/pratap-s-587b0b342)

LeetCode: <https://leetcode.com/u/3LBnJZthaY/>

## About Me

Information Technology undergraduate with a strong foundation in Java, Data Structures, and AI. Skilled in problem-solving, debugging, and prompt engineering. Experienced in building AI-driven and full-stack projects. Seeking opportunities to apply technical and analytical skills in product development and scalable solutions.

## Education

### Bachelor of Technology – Information Technology

VSB Engineering College, Karur

2023 – 2027 (Pursuing)

Current Year: 3rd Year

CGPA: 8.0 / 10

Key Courses: Data Structures, Java, Operating Systems, DBMS, Computer Networks

### HSC (12th Standard)

Ponnu Matriculation Higher Secondary School

2023 - Completed

Score: 83.66%

Board: State Board of Tamil Nadu

## On-Going Projects

### Generative AI for Edge-Case Simulation in SDVs

#### KPIT Competiton Project

- Working on generating rare driving scenarios using Conditional VAEs and CARLA.
- Integrating ROS 2 and Autoware for autonomous vehicle testing.
- Focus: edge-case handling, simulation control, scenario diversity.

### CampusLink - Internal Learning & Talent EcoSystem

#### Self-Developed Project | 2025

- Full-stack project using React, Node.js, Express, MongoDB.
- Integrated AI for prompt engineering and personalized learning.
- Features: Peer tutoring (BuddyUp), talent hub (SkillsSync), learning tracker (LearnTrack), video hub (VideoLearner), assessments (TestArena).
- Focus: End-to-end student cycle → Learn, Practice, Track, Improve, Showcase.