Harini Natarajan

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github.com/harinii19 | Portfolio – Harini Natarajan

Education

College of Engineering Guindy, Anna University   October 2022 - April 2026
B.E. in Computer Science & Engineering

Current CGPA: 8.52

Doha Modern Indian School   2009-2022
CBSE Grade 10: 81.4
CBSE Grade 12: 92.8

Technical Skills

Languages: Python, Java

Familiar With: C, JavaScript

Web Technologies: HTML, CSS, JavaScript, ReactJS, Flask

Database Management: MySQL, MongoDB Atlas (basic project experience)

Libraries and Tools: Git, OpenCV

CS Fundamentals: Data Structures and Algorithms, OOP

Soft Skills

Time Management: Deliver projects and assignments on tight deadlines through effective planning.

Team Collaboration: Engage effectively with diverse groups in activities and organization of events.

Communication: Confident in presenting ideas through group discussions, debates, and team coordination.

Projects

FaceSnap – Smart E-Learning & Attendance Management System   drive.google.com/harini/facesnap

- Built a full-stack platform that combined e-learning and real-time facial recognition attendance using webcam input.
- Implemented a video conferencing module (Google Meet clone) with DeepFace-based identity checks to prevent proxies.
- Developed role-based dashboards (Admin, Mentor, Student) with secure JWT-based authentication and real-time access control.
- Tech stack: ReactJS, Flask, OpenCV, DeepFace, PostgreSQL, MongoDB Atlas.

Car Rental Management System   drive.google.com/carRental

- Designed a web application that enables users to rent cars for up to two months with dynamic availability updates.
- Implemented cost calculation logic and automated invoice generation based on booking duration.
- Integrated SQL procedures and triggers to update vehicle availability status in real time.
- Tech stack: PHP, MySQL, HTML, CSS, JavaScript.

Employee Payroll Management System   drive.google.com/emp

- Designed and implemented a web-based payroll system to automate salary processing, tax calculations, and payslip generation based on OOAD principles. Built secure Admin and Employee dashboards with role-based access.
- Integrated attendance, leave, and designation-based salary logic with real-time validations and error handling.
- Generated reports (Excel/PDF), automated tax and bonus rules, and maintained logs for salary tracking and transparency.
- Tech Stack: Flask, Python, MySQL, HTML, CSS, JavaScript.

Volunteering and Achievements

Joint Secretary, CSEA Tech Domain: Led the development of the **Sync** and **Abacus** websites as part of the tech team, contributing to project management, coordination, and technical implementation.

Head of Social Media and Contents in Pixels: Managed and created engaging content and oversaw the engagement of the online community.