

Durai Pon Singh — Computer Science Engineering Student

Jeppiaar Engineering College – Chennai, Tamil Nadu, India

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in d-durai-pon-singh

Objective

Aspiring Computer Science Engineering student with a strong foundation in full-stack web development, machine learning, and modern web technologies. Seeking an opportunity to leverage academic knowledge and hands-on project experience to contribute to innovative software development projects.

Education

Jeppiaar Engineering College, Anna University

Bachelor of Computer Science and Engineering

Expected Graduation: 2026, CGPA: 8.2

Chennai, Tamil Nadu

2022–2026

Technical Skills

Languages: HTML, CSS, JavaScript, Python, Java, C (basic)

Frontend: React, Next.js, Bootstrap, TailwindCSS, Framer Motion, Three.js

Backend: Node.js, Express.js, Flask

Databases: MongoDB, MySQL

Tools: Git, GitHub, Visual Studio Code, Spyder, Eclipse

Learning Focus: MERN Stack, Distributed Computing, App Development, Machine Learning, Deep Learning, Large Language Models (LLMs)

Projects

Portfolio Website: Built a dynamic portfolio using React, MySQL, and Three.js. Features include a contact form integrated with Mailjet.

<https://durai-pon-singh.me>

Luminare Digital Website: Designed a portfolio website for a fictional company using Flask, MySQL, and Mailjet. Hosted on Render.com.

<https://luminare-digital.onrender.com/>

Weather Website: Created a weather application with real-time data integration via the OpenWeatherMap API. Displays weather details like temperature, humidity, wind speed, and more.

<https://weather-zeta-indol.vercel.app/>

To-Do List Application: Developed a task management web app that allows users to add, update, complete, and delete tasks. Data persistence is implemented using localStorage.

<https://whisperedshadow.github.io/to-do/>

MERN Stack Web Application: Built a full-stack web application using MongoDB, Express.js, React, and Node.js. Features include user authentication, real-time updates, and responsive UI design.

Expertise

Web Development Foundations.....

HTML & CSS: Completed a comprehensive course on HTML and CSS for web design, including responsive layouts and advanced styling techniques.

JavaScript Basics: Built a strong understanding of JavaScript fundamentals for dynamic and interactive web applications.

Bootstrap Framework: Mastered Bootstrap for building mobile-first, responsive websites with a consistent and clean design.

Databases (MySQL, MongoDB): Designed, implemented, and managed relational and NoSQL databases for data storage and retrieval. Proficient in writing efficient queries, schema design, and integrating databases with backend frameworks.

Machine Learning Basics.....

Supervised Learning: Acquired hands-on experience with supervised learning algorithms such as linear regression, decision trees, and random forests applied to real-world datasets.

Data Preprocessing: Developed expertise in data cleaning and preprocessing techniques, including handling missing data, normalization, and transformation.

Model Evaluation Techniques: Learned evaluation methods like cross-validation and confusion matrices, along with performance metrics such as accuracy, precision, and recall.

Full-Stack Web Development.....

React Framework: Created interactive, component-based web applications using React, with a focus on hooks, state management, and routing.

Next.js Framework: Developed dynamic, server-side rendered (SSR) and static websites using Next.js, with expertise in API routes, dynamic routing, and optimized SEO. Leveraged its built-in features for faster performance and scalability.

API Integration: Integrated third-party APIs into web applications, ensuring smooth front-end and back-end communication.

Node.js & Express.js: Developed secure back-end systems using Node.js and Express.js, focusing on routing, middleware, and user authentication.