

Durai Pon Singh

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Summary

Computer Science Engineering student and freelance web developer with hands-on experience in full-stack development using MERN and Flask. Focused on building scalable, user-centric web applications and actively exploring Machine Learning, NLP, and Large Language Models.

Education

B.E. (Honors) – Computer Science and Engineering (AI & ML) 2022 – Present
Jeppiaar Engineering College, Anna University

Technical Skills

Frontend	HTML, CSS, JavaScript, React, Next.js, Tailwind CSS, Bootstrap
Backend	Flask, Express.js, Node.js
Databases	MySQL, MongoDB, Firebase
Programming	Python, JavaScript, TypeScript, Java, C
Tools	GitHub, VS Code, Postman, Vercel, Render
Other	REST APIs, SEO Optimization, Responsive Design

Projects

Env Porter – Environment Variable Management Tool

- Identified recurring configuration errors caused by manual handling of API keys across projects and environments.
- Built a secure web-based tool to organize environment variables and export structured .env files with one-click setup.
- Gained hands-on experience in sensitive data handling, developer-focused UX design, and building productivity tools.

FlaskCLI – Command Line Tool for Flask Development

- Noticed repetitive setup overhead in Flask projects such as folder creation, dependency setup, and route scaffolding.
- Developed a CLI utility to automate project initialization, route generation, and dependency management directly from the terminal.
- Strengthened understanding of JavaScript-based CLI development, filesystem operations, and workflow automation.

Insurance Policy Management System

Freelance

- Solved the client's need for a centralized system to manage insurance policies, customers, and agents with controlled access.
- Designed and implemented a role-based web application with secure authentication, authorization, and CRUD operations.
- Learned to translate real business requirements into scalable system design and production-ready features.

Telecommunication Management System*Freelance*

- Addressed manual and fragmented telecom data management by introducing a unified digital management system.
- Built a backend-driven application to manage users, plans, and service records with role-based access control.
- Improved understanding of enterprise-style application architecture, scalability concerns, and backend-driven dashboards.

Zenith 25 – Technical Symposium Website & Event Management System

- Required a reliable and user-friendly platform to manage and present event information for a large student audience.
- Designed and deployed a responsive website with structured event listings, clear navigation, and organizer-friendly content flow.
- Gained experience in real-world deployment, user-centric interface design, and handling live production traffic.

Experience**Full Stack Developer Intern***Baptist Healthcare Pvt Ltd.*

- Worked on developing and maintaining full-stack web applications using modern frontend and backend technologies.
- Contributed to implementing REST APIs, database integration, and responsive user interfaces.
- Gained practical exposure to real-world development workflows, debugging, and collaborative coding practices.

Freelance Web Developer

2023 – Present

- Delivered real-world client projects including the *Insurance Policy Management System* and *Telecommunication Management System*.
- Experienced in building end-to-end web applications, integrating databases and APIs, implementing authentication, and optimizing performance and SEO.