DURAI PON SINGH D

✉ dduraiponsingh@gmail.com   📞 +91-9952531046   ⚙ github.com/whisperedshadow

🌐 duraiponsingh.tech

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. – Computer Science and Engineering   2022 – Present

Jeppiaar Engineering College, Anna University

- Pursuing an honours degree in Artificial Intelligence and Machine Learning

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.