Arsh Prem

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EDUCATION

- **SRM Institute of Science and Technology** — Tiruchirappalli,Tamil Nadu
  B.Tech in Computer Science; CGPA: 8.16 — *July. 2023 – May. 2027*

INTERNSHIPS/EXPERIENCE

- **Blubirch** — Bangalore, Karnataka
  Software Engineer Intern — *Dec 2025 – Jan 2026 (On-site)*
  - **Worked on backend development using Ruby on Rails and RESTful APIs, contributing to internal IT systems and application features.**: View Internship Certificate

- **Youth for Seva** — Bangalore, Karnataka
  Tech Intern — *June 2025 – July 2025 (On-site)*
  - **Contributed to development and enhancement of technical features supporting organizational workflows, improving functionality and user experience.Collaborated with cross-functional teams to analyze requirements and deliver assigned tasks effectively.**: View Internship Certificate

PROJECTS

- **P2P File Sharing System with XState FSMs and WebRTC**: A production-quality, decentralized peer-to-peer file sharing system using Finite State Machines (XState) for robust file-transfer state management and WebRTC for direct peer connectivity. Built with a modern full-stack architecture enabling seamless, browser-based file exchange.
  Tech Used: React (Vite), TailwindCSS, XState, Node.js (Express + WebSockets), Docker

- **Road Accident Prediction System**: A production-ready, self-hosted system for analyzing and predicting road accidents using historical incident datasets, weather enrichment, and machine learning. Includes: Streamlit UI dashboard, Celery background worker, weather data caching (Open-Meteo), OSGB → WGS84 geospatial conversion for UK STATS19 datasets, SHAP model explainability, and Docker Compose orchestration.
  Tech Used: Python 3.9+, Streamlit (Frontend), Machine Learning (scikit-learn), Celery, Docker & Docker Compose

- **Flowbite Blog (Ruby on Rails)**: A production-ready Ruby on Rails blog application with custom-built authentication, admin dashboard, social login, and user engagement features including likes, comments, and notifications. Designed with a responsive UI using Tailwind CSS and Flowbite, and structured for modern Rails development and deployment.
  Tech Used: Ruby on Rails, Hotwire (Turbo & Stimulus), Tailwind CSS, Flowbite, PostgreSQL, Docker

CERTIFICATIONS

- **IBM Full Stack Software Developer – Professional Certificate**: 15-course specialization covering Full Stack Development, Cloud Computing, DevOps, Microservices, and Generative AI.
  View Certificate

- **Guest Lecture – Appreciation Certificate**: Delivered a guest lecture on "Arduino Basics" at a National-Level Technical Workshop, SRM Institute of Science and Technology, Tiruchirappalli.
  View Certificate

POSITIONS OF RESPONSIBILITY

- **President, Model United Nations (MUN) Club**:
  SRM Institute of Science and Technology, Tiruchirappalli — Jan 2025 – Present
  Led organization of MUN conferences, debates, and training sessions; managed core team and coordinated inter-departmental activities.

SKILLS

- **Proficient**: Ruby on Rails, Node.js, JavaScript, Data Structures and Algorithms, SQLit

- **Comfortable**: C++, JAVA, HTML, PYTHON, RUBY

- **Tools**: Git, VS Code, Linux, Antigravity