

# Arsh Prem

linkedin:<https://www.linkedin.com/in/arsh-prem-0606542b7>

GitHub: <https://github.com/arshprem01>

Email : arshprem01@gmail.com

Mobile : 7542962814

## EDUCATION

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- **SRM Institute of Science and Technology**

*B.Tech in Computer Science; CGPA: 8.16*

Tiruchirappalli,Tamil Nadu

*July. 2023 – May. 2027*

## INTERNSHIPS/EXPERIENCE

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- **Blubirch**

*Software Engineer Intern*

Bangalore, Karnataka

*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**

*Tech Intern*

Bangalore, Karnataka

*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

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- **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

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- **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

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- **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

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

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

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