

# VARUN SINHA

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## EDUCATION

B. Tech in Computer Science and Engineering, Big Data Analytics Jun'23 – May'27

### SRM Institute of Science and Technology - Chennai

- Score: 9.77 CGPA
- Relevant coursework in Object Oriented Programming, Data Structures, Database Management System, Operating Systems etc.
- Projects for Innovation, Incubation and Entrepreneurship Center, SRMIST and SRM Group.

AISSE Senior Secondary, Pure Science with Computer Science & English May'23

### Valley View School - Jamshedpur

- Score: 85.2%
- Merit Certificate in Computer Science for scoring the highest rank in school

AISSE Secondary, Computer Science Aug'21

### Valley View School - Jamshedpur

- Score: 87.8%
- School Topper in International Mathematics and National Science Olympiad, Top 5 in International Mathematics and National Science Olympiad at district level.

## EXPERIENCE

Backend Developer Intern Jun'25 – Oct'25

### SAARC Masts Tech Pvt Ltd - Remote

- Built and optimized backend systems for two core projects - a mentor-student networking platform and a university student progress tracking system.
- Implemented secure and scalable APIs, enabling seamless data exchange between services and front-end applications.

Backend Developer Intern Feb'25 – Apr'25

### NIT Hamirpur - Remote

- Created an AI-powered e-waste classification system using deep learning and machine learning, improving classification accuracy by 30%.
- Established cost-effective data handling and API integration strategies, reducing overall project expenses by 20%.
- Streamlined workflows and led a team of 5 developers, enhancing development efficiency by 25% and delivering the project 2 weeks ahead of schedule..

Full-Stack Developer Intern Dec'24 – Mar'25

### International Federation of Inventors' Association - Bharat Chapter - Remote

- Spearheaded development of 5+ internal portals for IIE Center and SRM Groups, enhancing platform functionality and reducing task completion time by 40%.
- Directed a full-stack development team, boosting project delivery speed by 35%.

## PROJECTS

Praksat - Air Quality Forecasting Platform Dec'25

### Tech Stack - Next.js, TypeScript, FastAPI, PostgreSQL, Redis, Docker, Prisma, Better Auth, Razorpay, Elysia.js, Prometheus, Grafana, Loki

- Built a multi-tier SaaS platform with role-based access, credit-based API monetization, subscription models, payments, and usage tracking.
- Developed a secure REST API gateway with dual authentication and rate limiting.
- Created interactive dashboards with real-time visualizations, time-series charts, and data export.
- Architected a scalable multi-database system using Prisma and API key management with automated credit consumption
- Containerized app with Docker Compose, Nginx reverse proxy, observability stack, supporting 7 monitoring sites and 250K+ API credits per enterprise plan.

## SKILLS

- |                               |                                  |
|-------------------------------|----------------------------------|
| • C++                         | • HTML                           |
| • Python                      | • CSS                            |
| • Node.js                     | • Tailwind CSS                   |
| • Express                     | • SQL, PostgreSQL                |
| • JavaScript                  | • NoSQL, MongoDB                 |
| • TypeScript                  | • Apache Kafka                   |
| • React                       | • Prometheus, Grafana            |
| • Next.js                     | • Git, GitHub                    |
| • Docker, Kubernetes          | • Data Structures and Algorithms |
| • Redis                       |                                  |
| • Object-Oriented Programming |                                  |

## ACCOMPLISHMENTS

- Finalist in Smart India Hackathon'25 – ranked top 5 for ISRO's problem statement on air quality forecasting among all colleges in India.
- 1st Runner Up in Full Stack Development Hackathon organized by VIT Chennai in Sep'24 among all colleges in India. Built a college event management platform featuring a Merchandise Store with Inventory Management, Shopping Cart, Order Management, secure Payment Gateway, Notification System for end of milestone notifications and confirmations.

## CERTIFICATIONS

- NPTEL Big Data Computing GOLD + Elite TOP 1% Certificate, Nov'25.
- Naukri Campus Young Turks 2025 Merit Certificate, Sep'25.
- 30 Days DSA Bootcamp course by Unstop, 2025.
- The Data Science Course: Complete Data Science Bootcamp 2024 by Udemy, Oct'24.