

Avinash singh

+91 9773206093 | avinash9773206093@gmail.com | github.com/ab9106 | linkedin.com/in/avinash-singh-4b8145261/

Education

8.5/10 **BTech in Computer science and engineering**, SRM Institute of Science and Technology KTR | chennai, India 2021-25

Achievements: Merit scholarship by securing 102 rank@ SRMJEEE (entrance, SRM Institute of Science and technology) in 1st year|

Professional body: Member of IEI (The Institution of Engineers (India))

Courses: Advanced problems and programming | OOPS | DBMS | Dynamic programming | Operating system| PDE

Skills

Programming	Python, C++, HTML, CSS, Javascript, React, Node.js, Angular JS, Django,SQL, Typescript
libraries	Num.py, sym.py, Tkinter, MySQL, Next.js, Vue.js
frameworks	Bootstrap, Tailwind, Foundation, skeleton
Certifications	Cisco Networking Academy AWS Machine Learning AICTE android developer
Soft Skills	Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, On-site coordination.

Projects

Weather prediction Website

sept 2023 - October 2023

website , Personal Project

- Deployed ensemble forecasting techniques, incorporating numerical weather prediction models like **ECMWF** and ensemble averaging methods to **enhance forecast reliability and accuracy**.
- Enhanced data processing efficiency by implementing **Apache Kafka** for real-time data streaming and Apache Spark for distributed computing, resulting in streamlined **data ingestion pipelines for handling vast meteorological datasets**.
- Designed and developed user-friendly weather visualization dashboards using **D3.js** and **Leaflet.js**, enabling end-users to interactively explore forecast models and **satellite imagery for improved decision-making**.

Shopping Website

Jan 2023 - May 2023

website, personal project

- Spearheaded the creation of a full-fledged e-commerce platform using cutting-edge technologies such as **Python/Django**, ensuring a seamless shopping experience with features like product categorization, user authentication, and secure payment processing.
- Implemented performance enhancements through techniques like lazy loading, caching, and **content delivery networks (CDNs)** to guarantee fast page loading times and a responsive user interface.
- Designed and managed a robust database architecture using **SQL/NoSQL** databases and efficiently handled large volumes of product and customer data while ensuring data integrity and reliability for the **shopping website**.

Portfolio website

April 2023 - sept 2023

Website, personal project

- Created a custom portfolio website using **HTML, CSS**, and **JavaScript**, demonstrating proficiency in **front-end web development** and ensuring a unique and tailored online presence.
- Implemented **user-centric** design principles and incorporated responsive web design, ensuring that the website is accessible and visually appealing across various devices, including mobile phones and desktop computers. .

Extra Curricular

volunteer Experience

Sep 2023 - July 2025

Directorate of student affairs

- Actively contributed to the Directorate of Student Affairs, engaging in various initiatives aimed at enhancing the student experience.
- Enhanced leadership and teamwork abilities through active involvement in the Directorate of Student Affairs, contributing to a vibrant and inclusive campus culture. .
- Collaborated with a diverse team to plan and execute events, workshops, and activities that promoted student welfare, personal development, and community building.

Jp morgan

Jan 2024

JPMorgan Software engineering Job Simulation on Forage

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Competition

Participation

july 2023 - Oct 2025

hackathons, coding contests

- Participated in **Codequest** a coding competition conducted by department of computing technologies at SRM.
- Participated in the **Ideathon** | Flagship Innovation Challenge conducted by **IIM Bangalore**
- participated in **accenture innovation challenge** conducted by **accenture** .