

# SANKALP SINGH

[Email](#) | [Portfolio](#) | [Linkedin](#) | [Github](#)

## EXPERIENCE

### Software Engineer

Feb. 2025 – Present

*LTIMindtree*

*Navi Mumbai, India*

- Developing and maintaining financial software systems for the client Nets Denmark - Nexi.
- Utilizing **Mainframe technologies** including Job Control Language (JCL), COBOL, DB2, and VSAM to support critical business logic and ensure high availability.
- Collaborating with cross-functional teams to enhance performance of banking applications.
- Transitioned from **Graduate Engineer Trainee** (Feb 2025 – Apr 2025), having completed intensive training in enterprise software architecture and Mainframe development.

### Software Engineering Trainee (Virtual)

Jun. 2024 – Jul. 2024

*Forage - JP Morgan Chase & Co.*

[Certificate](#)

- Utilized JPMorgan Chase's open-source library, Perspective, to create a **live graph** displaying a data feed, enhancing data visibility by 30% for traders.
- Repaired **20+ broken files** in the repository to establish a working local development environment.

### Cloud Virtual Intern

May 2023 – July 2023

*AICTE NEAT (AWS Academy)*

[Certificate](#)

- Acquired proficiency in **AWS core services**, security, architecture, and pricing.
- Focused on cloud economics and infrastructure design patterns in preparation for AWS Certified **Cloud Practitioner** exams.

## PROJECTS

### WeatherTrakt - Real-time Weather App | *HTML, CSS, JavaScript*

[Live](#) | [GitHub](#)

- Designed a dynamic web app using HTML, CSS, and JavaScript to provide **real-time** weather information globally.
- Integrated **OpenWeatherMap API** to fetch temperature, wind speed, and humidity data.
- Created a responsive interface with **dynamic weather icons** for quick visual representation.

### Human Fall Analysis with FallAID Dataset | *IEEE Research Publication, Machine Learning*

[Paper](#) | [Kaggle](#)

- **Published research in IEEE** proposing an innovative approach to elderly fall detection using ML techniques.
- Categorized ActivityIDs into distinct classes to differentiate falls from daily activities, achieving **99.4% accuracy**.

### Automatic Room Light Control | *Arduino, Hardware Prototyping, Sensors*

[GitHub](#)

- Designed an automated light control system using **Arduino** and **PIR sensors** to optimize electricity usage.
- Calibrated sensor **sensitivity and delay** to ensure accurate detection of human presence.

## TECHNICAL SKILLS

**Mainframe:** JCL, VSAM, COBOL, DB2, CICS

**Programming:** Java, JavaScript, Python, C++, SQL

**Web & Tools:** HTML, CSS, React, VS Code, Git/GitHub, AWS

**Core Subjects:** Cyber Physical Systems, Data Structures & Algorithms, OOP

## EDUCATION

### SRM Institute of Science and Technology

Chennai, TN

*B.Tech in ECE with specialization in Cyber Physical Systems, GPA: 9.24*

*Sept. 2020 – May 2024*

- **Awards:** Outstanding Academic Performance Award (Topper in Specialization).
- **Scholarship:** Performance-based Scholarship received for 3 consecutive years.

## CERTIFICATIONS

**Generative AI Foundation Course**

LTIMindtree

**Agile Scrum Certifications**

Pluralsight

**Mastering Data Structures and Algorithms using C++**

[Certificate Link](#)

**HTML, CSS, and JavaScript for Web Developers**

[Certificate Link](#)