

# Sourav Paswan

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## Education

<b>Asansol Engineering College</b> <i>B.Tech in Computer Science and Engineering</i>	<i>2020 – 2024</i>
	<i>CGPA: 8.92/10.0</i>

## Experience

<b>Systems Engineer - C1</b> <i>ICICI Lombard (TCS)</i>	<i>Kolkata, West Bengal</i> <i>Aug 2024 – Present</i>
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- Engineered **REST APIs and microservices** using **Spring Boot** to support a distributed health insurance system, improving data flow efficiency and system modularity under **TCS BaNCS**.
- Built robust back-end logic and data workflows using **PL/SQL**, optimizing query performance for large-scale **Oracle Database** operations.
- Containerized services with Docker** and integrated them into **CI/CD pipelines** using **Git and Maven** for efficient and consistent deployments.
- Authored detailed **API specifications** and documentation using **Swagger**, conducted **API testing using Postman** and collaborated cross-functionally with the QA, DevOps, and product teams in **Agile sprints** for continuous delivery.

<b>SDE Intern</b> <i>Trusst (Formerly Novopay)</i>	<i>Bengaluru, Karnataka</i> <i>Feb 2024 – Jun 2024</i>
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- Worked on an Android app for **Loan Origination System** for India's largest private bank.
- Implemented layout changes and **integrated APIs** using **Retrofit2** for efficient data handling, and utilized **Room Database** for local storage and **Kotlin Coroutines** for asynchronous tasks.
- Followed **MVVM architecture** to enhance app performance and maintainability.

## Projects

<b>Movie App</b>	<a href="#">Project Link</a>
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- Android application built using Kotlin provides users with information about various movies using the TMDB API, it displays a list of popular movies and users can see movie details, add to favorites, and change app theme.
- Tools used: Android, Kotlin, MVVM architecture, Retrofit, Coroutines.

### Energy Efficient Fragmentation Aware SRMSA for EONs

- Worked on an optimized solution to the famous Routing and Spectrum Allocation problem in Elastic Optical Networks for the allocation for spectrums such that Fragmentation is as minimum as possible and the energy is as efficient as possible.

## Skills & Technologies

**Languages:** Java, Kotlin, C, SQL

**Frameworks & Technologies:** Spring Boot, REST API, Microservices, PL/SQL, Retrofit2, MVVM, XML

**Tools:** Postman, Git, Maven, Swagger, Android Studio, Docker

**Concepts:** Object-Oriented Programming (OOP), DBMS, Data Structures & Algorithms, Operating Systems, CI/CD, Agile Development

**Collaborative, detail-oriented, and experienced in Agile team environments**

## Achievements

- Received a provisional admission offer for the MBA Program (2025-2027) from the **Indian Institute of Management (IIM) Sirmaur**.