

# Tejas Vipin

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SRM Institute of Science and Technology • Kattankulathur • Chennai, India

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## Contact

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## Skills

C/C++, Python, Rust, Linux, Device Drivers, Compilers, Embedded Systems, Machine Learning, Systems Programming, LLM, Transformers, Git

## Experience

### Directorate of Student Affairs, SRMIST

Nov. 2022 - Aug. 2023

*Web Developer*

- The Directorate of Student Affairs organizes a national level cultural fest called Milan.
- Worked on the website of Milan 2023 along with the DSA tech team.
- Created a backend system for routing and interacting with the MongoDB instance, capable of handling thousands of concurrent requests and integrated it with the frontend.

### Linux Kernel

Jun. 2024 - Present

*Contributor to DRM subsystem*

- The Direct Rendering Manager is a subsystem in the kernel that contains the code and drivers for managing graphics related hardware.
- Optimized several display panels that use MIPI DSI by reducing generated code size and improving the internal API.

### LLVM

Jan. 2025 - Present

*Contributor to MLIR*

- LLVM is a modular, open-source compiler framework designed to optimize and generate intermediate and machine-level code for a wide range of programming languages and architectures.
- Optimized MLIR generation for operations involving 0 dimensional vectors. Optimized and worked on unit test architecture involving the same.

### Wayland

Jul. 2024 - Present

*Contributor to Wayland core protocol*

- Wayland is a modern display server protocol for Linux and other Unix-like operating systems.
- Streamlined error handling in several parts of the core wayland protocol.

## Projects

### Jane Street Real Time Market Data Forecasting Competition

- Participated in a Kaggle competition involving prediction of the performance of high frequency trading algorithms used by Jane Street for Quantitative Trading.
- Came up with several different strategies of data processing and prediction to increase accuracy and speed.

### Crime Detection and Classification using Deep Learning

- Detected and classified different classes of crime using RNNs and Transformers.
- Came up with several different novel strategies of analyzing video data to increase inference speed and accuracy.
- Finalized and contrasted different competing cutting edge models to come up with a final model that outperforms all current existing models for this task.

## Education

### SRM Institute of Science and Technology

*B Tech Computer Science and Engineering with Specialization in Cloud Computing*

Kattankulathur, India

2022 - 2026