

# GULSHAN

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## SKILLS

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- Technical Skill : Javascript, Typescript, Python, Go
- Tools & Technologies: ReactJS, NextJS, NodeJs, EC2, DynamoDB, S3, Lambda, Docker, Socket.io, Git, CI/CD, Unit Testing, StoryBook, Design Patterns, WebGL, ThreeJS, RAG, Langchain, Ollama, GenAI

## PROFESSIONAL EXPERIENCE

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### WSP

Noida

#### Software Developer

MAY 2022 - Present

- Created an Editor using NextJS, WebGL and Marzipano enabling one to create 360 Virtual Tours.
- Created a service that converts 2:1 images into multi-resolution tiles, enabling faster rendering on WebGL Canvas. This implementation significantly reduced the load time of large images, and improved overall application performance.
- Executed the migration of a Python-driven image processing tool from AWS EC2 Container to a more cost-effective frontend solution, achieving a 100% reduction in monthly cloud costs.
- Designed a frontend solution in ReactJS for recording and sharing video clips, leveraging a microservice architecture with HLS and FFmpeg for video transcoding.
- Building a RAG Application for inhouse document search using langchain and Ollama.

**Tech Stack:** Typescript, ReactJS, NextJS, NodeJS, WebGL, ThreeJS, AWS EC2, DynamoDB, Lambda, Langchain, Ollama, Python, RAG, Docker.

### WIPRO

Noida

#### Project Engineer

JULY 2021 - MAY 2022

- Transitioned ETL pipelines from Greenplum to Cloudera, resulting in a 40% improvement in data quality and a 25% increase in analytics processing speed.
- Built bash scripts for an event notification system to track and analyze missed or unprocessed data, automating post-action processes. This solution improved data processing reliability by 90% and minimized manual intervention enhancing overall system efficiency and reducing downtime.
- Developed and launched a frontend web solution using ReactJS, ChartJS for data visualization and report generation, significantly aiding client discussions and information sharing.

**Tech Stack:** ReactJS, ChartJS, Cloudera, Postgresql, BASH, CLI, Linux

## PERSONAL PROJECTS

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- **[RSS Aggregator](#):** An RSS Aggregator built in Go Lang, leveraging concurrent programming with Goroutines for efficient data retrieval. Utilized web scraping techniques to extract content from various RSS Feeds.
- **[Equirectangular Panorama to Cube Map](#):** Equirect panorama into cube maps, enabling seamless multi-resolution image tiles loading on WebGL canvas.

## EDUCATION

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### GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

New Delhi

Bachelor of Technology, Computer Science and Engineering

JUNE 2017 - JULY 2021