



# Girish Garg

Roll No.:24UITE5018

B.Tech 2023 - 2027

Information Technology (IT)

linkedin.com/in/girish-garg

gargirish2020@gmail.com

+91-8824885187

Github

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech in I.T	MBM University, Jodhpur	7.85/10 (Ongoing)	2023-Present

## TECHNICAL SKILLS

- **Programming:** Python, C, C++, Java, JavaScript, SQL, Kotlin
- **Web Development:** Html, Css, Js, React, Node.js, Flask, Next.js , Tailwind
- **Databases:** SQLite, MySQL, MongoDB (NoSQL)
- **Systems:** Linux, Git, POSIX
- **Tools & Platforms:** Docker, Heroku, GitHub, Figma, Postman,

## EXPERIENCE & PORS

- **Stdlib** *March 2024 - April 2024*  
*Open-source Contributor* USA
  - Engineered **10+ accepted** contributions to stdlib, designing new numerical APIs and NaN-resilient wrappers in both JavaScript and C.
  - Enhanced core math primitives by introducing reusable constants and production-ready edge-case handling within a large-scale open-source codebase.

## PROJECTS

- **ANIMY - Prompt Based Video Generator** *June 2025 - Aug. 2025*  
*React JS, Node JS, Python, GenAI* Video | Website
  - Conceptualized a prompt-driven platform integrating **3 components:** frontend, API backend, and render backend.
  - Orchestrated parallel processing across **4 parallel threads**, increasing rendering throughput by 10 videos per hour, and improving overall system responsiveness. Evaluated **2 real-time update strategies** and discarded Web Sockets after architectural cost analysis.
- **Maap - Precise Wood Measure** *May 2026*  
*Next JS, TypeScript, SupaBase, React-pdf* Github | Website
  - Architected an offline-first PWA replacing a legacy Excel quotation workflow, layered on **7 RLS-gated Postgres tables** and **2 security-definer RPCs** for transactional snapshot restore and token-keyed public share.
  - Shipped multi-page client-side PDF export via `react-pdf/renderer`, an IndexedDB-persisted query cache enabling full offline reads, and a stale-while-revalidate service worker delivering sub-100ms perceived navigations.
- **Build My Own Git** *Dec. 2024*  
*Node JS* GitHub
  - Implemented **6 core Git commands** including 'init', 'hash-object', 'write-tree', 'commit-tree', 'ls-tree', and 'cat-file' in Node.js.
  - Recreated the '.git' directory structure managing **3 object types** (blob, tree, commit) with persistent storage.
  - Incorporated **SHA-1 hashing** to generate and resolve content-addressed objects, mirroring native Git behavior.

## ACADEMIC SKILLS

- **Data Structures & Algorithms:** Arrays, Linked Lists, Stacks, Queues, Trees, Hashing, Recursion, Time & Space Complexity
- **Algorithmic Analysis:** Problem decomposition, edge-case identification, and time & space complexity evaluation
- **Web Development Fundamentals:** Client-server architecture, RESTful APIs, authentication basics, and MVC pattern
- **Android Development Fundamentals:** Activity & Fragment lifecycle, Intents, RecyclerView, MVVM architecture, SQLite database and Material UI components
- **Technical Debugging:** Identifying logical, concurrency, and edge-case issues in backend systems

## CERTIFICATIONS

- **Supervised Machine Learning**, Stanford, Coursera *2025*
- **Introduction to Software Development**, Amazon, Coursera *2025*
- **Intermediate SQL**, DataCamp *2025*
- **JavaScript Intermediate**, HackerRank *2026*