

# Mayank Singhal

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## EDUCATION

### Manipal University Jaipur

B.Tech, Computer Science Engineering, 8.19/10(CGPA)

Jaipur, Rajasthan

September 2022 – July 2026

### Lovely Public Sr. Sec. School

CBSE, Class - XII/ Class - X: 92.3%

Delhi, India

2020 – 2022

## SKILLS

**Languages:** C++, Python, HTML/CSS, TypeScript

**Frameworks:** Express.js, Node.js, React.js, Bootstrap, Tailwind CSS

**Developer Tools:** AWS, Git, GitHub, VS Code, MySQL, Cisco Packet Tracer

**Libraries:** MongoDB, Axios, Shadcn-UI, Material-UI

**Business Skills:** Marketing, Collaboration, Operations, Project Management, Team Building

## RELEVANT COURSEWORK

**Core Courses:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Object-Oriented Programming, Information Security, Computer Networks

**Mathematics:** Engineering Mathematics, Discrete Mathematics, Probability and Statistics

## WORK EXPERIENCE

### Technical Lead & Community Manager

LaVisuals

February 2021 – July 2023

Remote (Delhi, India)

- Launched and scaled a custom Discord bot for an anime graphics marketplace, automating order processing and ticket resolution to handle **300+ concurrent users**, reducing workflow bottlenecks by **40%**, and achieving **<5 min response times**
- Drove 30% revenue growth and 95% user retention by implementing personalized engagement strategies and scaling bot infrastructure with **sharding and load balancing**, maintaining **85% uptime** and **<2s API response times** during traffic surges.
- Led 5+ technical workshops, **onboarding 250+ community members**

## EXTRA-CURRICULAR & CERTIFICATIONS

### Goldman Sachs Software Engineering Virtual Experience

Forage (Virtual Platform)

May 2024

Remote

- Assessed IT security systems for financial infrastructure vulnerabilities during job simulation, proposing critical system improvements
- Cracked sample passwords using Hashcat to identify outdated hashing algorithms, demonstrating exploit risks in legacy systems
- Authored security audit memo recommending minimum password length increase (8 → 12 characters) and adoption of dedicated hashing algorithm for enhanced protection

## PROJECTS

### Trylo - Virtual Try-On | Computer Vision, Machine Learning, PyTorch | Live Demo

January 2025 – Present

- Leveraged open-source **garment deformation models(MV-VTON)** to align clothing with body postures, enabling realistic virtual try-ons through iterative adjustments
- Implemented **GAN-based pipelines(Try-On-GAN)** to synthesize garment textures on user images, retaining details via documentation-guided parameter tuning

### VibrantHues - Palette Visualizer | Next.js, Supabase, Clerk OAuth | Live Demo

October 2024 – January 2025

- Developed full-stack color palette tool enabling designers to create, preview, and export custom palettes with real-time dark/light mode previews
- Integrated Clerk authentication and role-based access to secure user-generated palettes, **supporting JSON/PNG exports** and social sharing via **RESTful APIs**

## POSITIONS OF RESPONSIBILITY

Deputy Head of Events, ACM SIGBED, Manipal University Jaipur

August 2023 - April 2024

Head of Graphic Designing, ACM SIGBED, Manipal University Jaipur

August 2023 - April 2024