

Mayank Singhal

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Professional Summary

Computer Science student with hands-on experience in AI/ML and full-stack development. Contributed to production-grade tools using FastAPI, MongoDB, and LangChain at Publicis Sapient. Deployed cloud-based applications on AWS. Seeking software engineering roles to build impactful systems using ML, cloud infrastructure, and modern web technologies.

Education

B.Tech Computer Science & Engineering

Manipal University Jaipur — May 2026 (expected)

Minor: Cloud Computing • GPA 8.35/10 • Relevant Courses: Data Structures & Algorithms, Operating Systems, DBMS, Machine Learning

Experience

Software Engineering Intern

Publicis Sapient — May 2025 – July 2025

- **Co-developed** ARIA, an AI voice-interview pre-screening tool built on FastAPI, LangChain and MongoDB, reducing manual screening time by 70% and enabling HR teams to process 3x more candidates.
- **Optimized** 15 FastAPI endpoints and MongoDB schemas, improving data throughput by 40% and reducing report generation time from 6 minutes to 4 minutes.
- **Spearheaded** the creation of comprehensive API documentation using Swagger for the ARIA project, reducing onboarding time for new developers by 60% and improving code maintainability.

Technical Lead & Community Manager

LaVisuals — Feb 2021 – Jul 2023

- **Developed** and sharded a Discord bot backend in **Node.js** to automate order/support flows for 300+ users, achieving sub-5 min ticket resolution.
- **Implemented** load balancing and caching layers, driving 30% revenue growth and 65% retention through faster response times.
- **Led** 5+ design workshops, onboarding 250+ community members and boosting creative engagement.

Projects

DocBook – React, TypeScript, Supabase, SendGrid, Vercel

[Live Demo](#)

- **Engineered** a full-stack doctor–patient booking platform with real-time slot management using React, TypeScript, and Supabase; integrated SendGrid reminders; deployed on Vercel cutting no-shows by 30% and automating clinic workflows.

Trylo – Virtual Try-On – React, TensorFlow.js, PyTorch, Docker, AWS Lambda

[Live Demo](#)

- **Integrated** MV-VTON and TryOn-GAN models pre-trained on the DeepFashion dataset using PyTorch and TensorFlow.js; containerized with Docker; served via AWS Lambda reducing garment rendering latency by 35%.

Heart Risk Detection – Python, TensorFlow, FastAPI, AWS EC2

[Live Demo](#)

- **Trained** a TensorFlow DNN classifier on the UCI Heart Disease dataset; exposed via FastAPI endpoints and deployed on AWS EC2 achieving 87% accuracy and enabling 250+ users to evaluate cardiac risk through a scalable REST API.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C++ , SQL, Object-Oriented Programming
AI & ML: TensorFlow, PyTorch, OpenCV, LangChain
Web & Systems: React, FastAPI, Flask, Node.js, Express, REST APIs, Supabase, PostgreSQL, MongoDB
Cloud & DevOps: AWS (EC2, Lambda, S3, ECS), Docker, Git, Version Control

Leadership & Impact

Head of Graphic Design & Deputy Head of Events, ACM MUJ

Aug 2023 – Apr 2024

- **Directed** a team of junior designers to create LinkedIn posts, Instagram stories, reels, and carousels for 15 chapter events driving a 30% uplift in social media engagement.
- **Coordinated** logistics and promotion for technical workshops and hackathons managing speaker outreach, venue setup, and marketing campaigns to boost average attendance by 25%.

Certifications & Hackathons

Certifications: AWS Academy Cloud Foundations • CCNA Routing & Automation • NPTEL: Data Structures & Algorithms

Hackathons: Smart India Hackathon 2024 • NBC Idea Factory Season 9(developed a working prototype in 36 hours)