

Pariansh Mahajan

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EDUCATION

Thapar Institute Of Engineering And Technology

Bachelor of Engineering in Computer Science

CGPA: **9.06**

Patiala, India

2022 – 2026

EXPERIENCE

Hostel Management System - TIET, Patiala

Apr 2024 – Dec 2024

Full Stack Developer

hosmas.ccstiet.com

- Architected scalable platform serving **14,000+** users across **18** hostels with Kubernetes and Go **microservices**
- Automated allocation, mess, leave, and cleaning systems, cutting administration paperwork by **40%**
- Designed OAuth-based auth, fine-grained role-based access, and ensured **99.9% up-time** with load-balanced infra
- Built distributed system with API Gateway, service mesh, and **pod autoscaling** for peak traffic handling

Center Of Excellence - University of Queensland | TIET, Patiala

Jan 2025 – May 2025

Full Stack Developer

dsai.thapar.edu

- Spearheaded core tech team to build cross-college portal enabling research and internship collaboration at scale
- Engineered secure, role-based dashboards in Next.js 14 with **ISR caching** and modular component design
- Streamlined grant proposals and expert evaluations for **300+** professors, reducing evaluation time by 60%

ACHIEVEMENTS

- Secured **first place** in **Smart India Hackathon 2024** for PS1618, excelling at an esteemed national level
- Awarded **INR 7+ lakh** scholarship from Thapar Institute for outstanding academic achievements
- Achieved **global rank 72** in CodeChef Starters 155 among 30,000+ participants globally
- Solved **750+** LeetCode problems with **1700+** contest rating, ranked in **top 12.5%** globally

PROJECTS

Society Permissions Portal | Nextjs13, Django, Material UI, Docker, Jenkins

society-permissions.thapar.edu

- Led permissions platform with **4,000+** users, 99.9% uptime, currently used by TIET, Patiala administration.
- Optimized front-end hydration with intelligent caching, improving load speed and boosting user engagement.
- Dynamic multi-role system handling all edge cases, cutting college's student clubs' finance paperwork to **4%**.

SiteSync | MERN, VM, Docker, Jenkins, Bash Scripting

sitesync.pariansh.com

- Devised **zero-config** deployment tool enabling Git-based Docker hosting on VMs, reducing errors by **80%**
- Constructed robust CI/CD pipelines using Jenkins, Docker, and Bash, reducing deployment from **30min to 3min**
- Integrated live logs, auto-redeploy, NGINX config, and Cloudflare DNS for full site lifecycle control

POSITION OF RESPONSIBILITY

Creative Computing Society — Joint Secretary

2022 – 2025

Thapar Institute of Engineering and Technology, Patiala

ccstiet.com

- Directed a **130-member** technical society with a **5000+** community, mentoring **1000+** students via DSA workshops, contests and hackathons, and deploying **15+** web platforms on **AWS** using **Nginx** and **Docker**
- Mentored **3500+** participants from **28** colleges for HackTU 6.0 (in collaboration with **MLH**), managing technical infrastructure, online judging platforms, and integrations that supported **5000+** registrations

TECHNICAL SKILLS

CS Fundamentals:

Data Structures, Algorithms, OOPs, DBMS, OS, Networking, Cloud Computing

Languages:

Python, C/C++, JavaScript, TypeScript, GO, SQL

Frameworks & Libraries:

Node.js, Next.js, React.js, Express.js, Three.js, Redux

System Design & Architecture:

Microservices, Distributed Systems, Caching Strategies, Database Sharding

Database & Messaging:

MongoDB, PostgreSQL, Kafka, Redis, Firebase, DynamoDB, Load Balancing

DevOps & Tools:

Git, Auth0, Vagrant, Linux, Docker, Kubernetes, Nginx, AWS, Terraform, Jenkins