Mohit Hingorani

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Education

Manipal University Jaipur, B.Tech in Computer Science Engineering	August 2022 – May 2026
Aadharshila Vidyapeeth, XII (P.C.M)	April 2021 – March 2022
Aadharshila Vidyapeeth, X	April 2019 – March 2020

Experience

General Secretary, IEEE Computer Society – Manipal University Jaipur — May 2024 – Present
- Led strategic initiatives to foster innovation and collaboration, impacting a community of 1,000+ members.
- Improved member participation and engagement by 25% through effective decision-making processes.

InnovateX Participant, E-Cell DTU – Delhi, India — April 2024
- Ranked among the top 15 out of 2,000+ participants in a national-level hackathon.
- Proposed and implemented a solution that enhanced operational efficiency by 40% during the competition.

Executive Committee Member, MUJHackX 2.0 – Manipal University Jaipur — August 2024 – October 2024
- Coordinated operations for an international hackathon with 100+ team members and 1,000+ participants.
- Streamlined participant onboarding and event logistics, improving overall efficiency by 30%.

Projects

Social Network Platform
- Developed a social networking platform that features real-time messaging, friend requests, and user profiles using WebSockets.
- Defined user authentication and profile management with NextAuth, supporting credentials and Google providers, enhancing user experience and security.
- Implemented a friend recommendation system to suggest potential connections based on shared interests.
- Deployed using NGINX on an Ubuntu droplet with Cloudflare for security and performance.

TechGhar
- Created real-time control and automation features using WebSocket and Next.js, increasing energy efficiency in smart homes by 20%.
- Analyzed historical energy consumption data to identify key patterns and trends, informing the development of targeted energy-saving recommendations.
- Applied TensorFlow for energy usage pattern prediction, improving forecasting accuracy by 50%.
- Designed interactive energy dashboards using Chart.js, enhancing user decision-making by 40%.

Chess Multiplayer App – Real-time Chess Game
- Built a multiplayer chess application using Socket.IO, ensuring real-time gameplay with 99.9% move synchronization.
- Integrated the chess.js library to enforce game rules, increasing validation accuracy by 35%.
- Dockerized application components for scalability, supporting up to 2,000 simultaneous games.

TECHNICAL SKILLS

Languages: Python | C | C++ | Git | Bash | LaTeX
Frontend Development: HTML | CSS | JavaScript | TypeScript | React | Next.js 15 | Tailwind CSS
Backend Development: Node.js | Express.js | Hono Web Framework | Serverless Backends
Databases: MongoDB | PostgreSQL | Prisma ORM | Redis
DevOps: Docker | CI/CD Processes | Cloudflare Deployment