# GORAM ANIL NAYAK

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## EDUCATION

**Indian Institute of Technology, Kharagpur** <span style="float:right">Kharagpur, India</span>
*Dual Degree of B.Tech (Honors) and M.tech- Mechanical Engineering; CGPA: 8.29* <span style="float:right">July 2017 - June 2022</span>

**Narayana Junior College** <span style="float:right">Hyderabad, India</span>
*Telangana State Board of Intermediate Education; Percentage: 98.5* <span style="float:right">July 2015 - June 2017</span>

**St.Antony's high school** <span style="float:right">Sangareddy, India</span>
*Telangana State Secondary School Certification; CGPA: 9.7* <span style="float:right">Completion - June 2015</span>

## PROJECTS

**Finance Web Application** <span style="float:right">Jan 2023 - present</span>
- Crafted a user-friendly front-end using **NextJS**, **Tailwind CSS**, Shadcn UI, and **lightweight charts** for seamless interactions.
- Architected a server, hosted on EC2 with **FastAPI** backend, **PostgreSQL** database, and implemented sharding for performance
- Integrated AngelOne SmartAPI's **WebSocket** to fetch real-time tick-by-tick data and used yfinance library for historical data.
- Leveraged Operations Research techniques to model the real-world problem of **trendline generation**, dynamically plotting on U.
- Developed real-time **conditional trade execution** functionality, integrating with third-party brokers like AngelOne and Zerodha.

**Developed And Deployed Full Stack Applications** <span style="float:right">Feb 2023 - April 2023</span>
- Developed Netflix Clone, Tetris, and Todo Web-Apps using NextJS, incorporating **Next-Auth**, Supabase, and **ServerActions**.
- Designed apps in a **Monorepo**, utilizing **custom hooks** and **internal packages** for UI and state management with **Recoil**.
- Implemented **CRUD** operations, authentication, **Prisma** for efficient database interactions, and deployed on **Vercel** and **Netlify**.

## PROFESSIONAL EXPERIENCE

**Operations Research Analyst, Laminaar Aviation Infotech, Bangalore, India** <span style="float:right">July 2022 - present</span>
- Worked on Enhancing Crew Rostering Optimizer (**CRO**) module, which is part of Airline Resource Management System (**ARMS**)
- Achieved near-optimal result in CRO with **20%** reduction in crew scheduling costs through compact and moving-window heuristics.
- Integrated **reserve assignment**, long reserve assignment, and long reserve priority in CRO module as per Business Requirements.
- Handled distribution and horizontal rules of reserve in the CRO module, leading to a **30%** increase in, efficient resource allocation.
- Improved the overall system efficiency by **5 percent** and aligned key performance indicators through two solution engine phases.
- Implemented **East-West Restriction** requirement and optimized Vertical constraints in CRO, resulting in a more compact model.

## RELEVANT SKILLS

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| **Languages:** | C \| JavaScript \|TypeScript \| HTML \| CSS \| SQL \| Python \| C# |
| **Web Technologies:** | Node.js \| React.js \| Next.js \| Express.js \| FastAPI \| Tailwimd CSS \| GraphQL \| Restful APIs \| Recoil \| Redis |
| **Database:** | PostgreSQL \| MySQL \| MongoDB |
| **Developer Tools:** | Vs Code \| Git \| AWS EC2 \| Postman \| Nginx \| Docker \| |

## POSITION OF RESPONSIBILITIES

**Captain | Hockey Team | Vidyasagar Hall of Residence - IIT Kharagpur** <span style="float:right">Jan 2020 - March 2022</span>
- Led the Hockey team to secure a **bronze** medal in the highly competitive 65th Inter-Hall General Championship, IIT Kharagpur.
- Effectively organized practice sessions by coordinating with a team of 16 players and diligently tracking their progress regularly.

**Secretary | Sports and Games | Vidyasagar Hall of Residence - IIT Kharagpur** <span style="float:right">June 2018 - March 2019</span>
- Elected by an electorate of 332 boarders to lead Hall's effort to compete in the Sports and Games, General Championship.
- Managed an annual budget of INR 2,17,000/- allocated for sports activities aimed at the success of the General Championship.

## EXTRA CURRICULAR ACTIVITIES

- Contributed to the development and promotion of the sport among students, as Part of the **NSO** - football at IIT Kharagpur.
- Coordinated in organizing COVID-19 vaccination drive for 3000+ campus residents during 2nd wave of the coronavirus pandemic.
- Actively participated in interhall sports, Illumination, and Open IIT Sketching, showcasing competitive spirit and artistic talents.

## AWARDS AND ACHIEVEMENTS

- Secured rank **64** and **44** respectively in Joint Entrance Examination Advanced and Mains - 2017, among **1.18** million applicants.
- Secured Rank **534** in Engineering Agricultural and Medical Common Entrance Test-2017., among **0.22** million applicants.