Jatin Kumar

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Driven *Mechanical Engineering Graduate*. Ready to elevate career in a company to solve real world problems — Adaptable and Driven to Learn, Grow, and Contribute.

EDUCATION

Dr. BR Ambedkar National Institute of Technology Jalandhar

Bachelor of Technology, Mechanical Engineering *July 2018 — June 2022*
Cumulative Grade Point Average — 7.09

Kendriya Vidyalaya No. 2, AFS Chakeri, Kanpur

Central Board of Secondary Education *2016 — 2017*
Grade — 83.80%

SKILLS

Programming Languages JavaScript, TypeScript, Go, MATLAB, Engineering Equation Solver (EES)

Markup Languages HTML5, CSS3, Markdown, LaTeX

Tools SolidWorks, AutoCAD, EES, Adobe Photoshop, GIMP, Git/GitHub, VS-Code, Eclipse, Postman, GNU/Linux

Databases MySQL, MongoDB

POSITIONS OF RESPONSIBILITY

Society Of Mechanical Engineers (SOME), NIT-J
   Student Head *January 2021 — March 2022*

- Collaborated with team of 30+ members to organize various edutainment events like Robowars, Manoeuvre, UAE Drone, Rocket League during annual technical fest of college, "Techniti".
- Worked as an Editor/Designer for bi-annual magazine, "Mechazine". Supervised content selection and editing process, designed graphics and layouts for 8th, 9th and 10th edition of magazine.
- Organized industrial visit in Rail Coach Factory Kapurthala, Jalandhar

PROJECTS

Performance analysis of Kalina Cycle
   Using MATLAB, EES, SolidWorks

- Analysis and assessment of performance capability of Kalina cycle was conducted in this project by collaborating with a team of 5 members.
- The system was tested for various performance parameters and the results were graphically plotted using EES, for drawing conclusions.

Augmented Power Organic Flash Cycle of Heat Recovery Power Plant
   Using EES, SolidWorks

- This project was aimed to assess the true technical potential of the Augmented power OFC technology for low temperature heat sources using Heat recovery.
- Development of performance characteristics of Power augmentation using organic flash cycle (OFC) from waste heat recovery.
- Design of Fluid Flash Tank using SolidWorks.

WORK EXPERIENCE

Junior Software Engineer @ Beingtheparent.com
   A rapidly growing online discovery platform for parents *September 2023 – January 2024 | Bangalore (Onsite)*

- Developed and maintained backend services using Node.js, TypeScript, and Express, ensuring high performance and scalability.
- Implemented notification services for various features of the app. Optimized database queries to boost app performance.
- Implemented user tracking and analytics API, leveraging data-driven insights to enhance decision-making processes and integrated real-time chat features using Sockets, enhancing user experience.

AREAS OF INTEREST

- Thermodynamics
- IC Engines
- Fluid dynamics
- Computer Graphics