Prakhar Gupta

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Summary

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Education

IIT Kanpur   Kanpur, India
B Tech, Mechanical Engineering   *January – 1212*
CPA: 6.8/10
Modules: Data Structure and Algorithms, Introduction to Programming

Work Experience

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Academic Projects

B.Tech Project - Design and Fabrication of a 3D Pantograph
- Worked in a team of three to design and fabricate a 3D CAD model of a Pantograph, which would be able to scale and carve a 3D model to twice its original size. Performed stress analysis and determined critical points to select the appropriate dimensions and materials of the mechanical components.

MATLAB projects
- **Beam stress analysis:** Used 3-noded triangular mesh to perform thermo-elastic stress analysis and find deflections in a multilayered beam.
- **Shaft system design:** Wrote code to design a solid shaft mounted with gears and pulleys calculating the optimum shaft diameter and shaft material using iterative procedure.

Side Projects

ExpressCV

- Currently pursuing an independent project to build a web app to allow users to create resumes quickly using predefined templates. Used Django for the app and celery as a task queue, with templates written in latex.
- As the app gathers more data about professions and corresponding roles, it would recommend users on how to put together the achievements in an optimized way.

Activities and Awards

- Secured an All India Rank of 666 among around 485,000 candidates (99.85 percentile) in IIT-JEE, 2011.
- Awarded Certificate of Appreciation for Manufacturing Processes course project.
- *Webmaster*, Institute football league: Developed a web app for organizing a football league in the institute for over 200 students.
- *Sports Quiz Coordinator*, Institute Sports Festival: Organized the Sports Quiz in the annual Sports Festival, attended by over 1500 students.
- *Member*, Alumni Contact Program: Aimed to strengthen Alumni connections globally and to increase alumni funds through their financial support.

Programming Skills

- **Languages**: Java, Python, MATLAB, C, Shell