

# CHIRAG RATHI

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## EDUCATION

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**GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering**  
**Bachelor of Science in Industrial and Systems Engineering**  
**Minor – Computing and Intelligence**

**Atlanta, Georgia**  
*August 2021 – May 2025*  
**GPA 4.0**

- **Coursework:** Probability with Apps., Engineering Economy, Data input and manipulation, Discrete Math, Java
- **Honors: Faculty Honors x2** - Fall 2021, Spring 2022 (4.0 GPA in a semester)
- **Activities:** Undergraduate Research, India Club at Georgia Tech, GT Cricket Club, DataScience@GT, GC LLC

**TOOWOOMBA GRAMMAR SCHOOL, QLD, AUSTRALIA**  
**Academic & Cultural Exchange Student**

**Toowoomba, Australia**  
*October - November 2019*

- Fully sponsored student exchange; Leadership Development Program; Ted-Ex speech on Genetic Engineering.

## EXPERIENCE

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**Ecorock Packaging Private Limited**  
**Industrial Engineering Intern**

**New Delhi, India**  
*May 2022 – Present*

- Supervising factory operations and conducting quality inspections with the head engineer to ensure project compliance.
- Streamlining channels and warehouse slotting to increase product flow. Initial results show 40% circumvention in dispatcher delays.
- Minimizing forced non-operational periods through re-organization of mold transitions, Increasing industrial throughput by ~8%.

**Georgia Institute of Technology - H. Milton Stewart School of ISyE**  
**Undergraduate Research Assistant – Dr. Chen Zhou**

**Atlanta, Georgia**  
*April 2022 – Present*

- Investigating supply chain dynamics and economic feasibility of fresh foods in food deserts to promote balanced nutrition.
- Exploring avenues to increase affordability, accessibility, palatability, and convenience in contrast to processed food.

**KPMG National Supply Chain & Procurement Case Challenge 2022**  
**Adjudged as the best team on the national level**

**Atlanta, Georgia**  
*April 2022*

- Addressed several global supply chain and procurement challenges such as strategic sourcing constraints, rising demand, pressure to report on ESG metrics, and expansion into unexplored territory. Developed a proposal for an executive team of KPMG consultants.
- Incorporated multiple alternatives with ROR comparisons for flexibility and presented an expansion strategy for the customer.
- Employed predictive analysis and product-specific dashboards to increase demand forecast accuracy by ~20% and situational contract consolidation/diversification analysis to optimize contract management labor and mitigate supplier risk losses by ~15%.

## PROJECTS

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**Aroma Drive - Grand Challenges LLC Project**  
**Recognized as 2<sup>nd</sup> best 'Grand Challenges' project/product**

*March 2022*

- Identified drowsiness while driving as a major source of concern, accounting for over 100,000 crashes and 2,000 fatalities annually.
- Formalized a compact scent-based device prototype, actively diffusing scents evidenced to increase beta waves and alertness.
- Chartered a business model using the lean stack framework and presented in a panel conference to peers, professors, and deans.

**Sports Analytics - 2022 FIFA World Cup Winner Prediction**

*April 2022*

- Forecasted the potential winner of the 2022 FIFA World Cup factoring country HDI, historic performance, FIFA Rankings, and dynamic player potential from EA. Insights, visuals, and aggregated predictions were delivered through an auto-generated report.
- Retrieved/scraped data, processed it, and visualized employing 'ESPN API', BS4, pandas, matplotlib, and more useful modules.
- Quantified corrective coefficients for factors using 'sklearn' to measure correlational coefficients and normalize data. Developed graphic user interface using 'PyQT5' module and integrated a MySQL database storing dynamic potentials of players.

## LEADERSHIP AND SERVICE

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**India Club at Georgia Tech (ICGT)**  
**Vice President – Operations**

**Atlanta, Georgia**  
*April 2022 – Present*

- Planned and conducted complex events for the largest cultural organization at Georgia Tech catering to over 1000 members.
- Devised a dynamic accountability system for duty assignments, facilitated outreach and emphasized organizational camaraderie.

**Sanjay Gandhi Animal Care Centre**  
**Fundraising and Animal Welfare Volunteer**

**New Delhi, India**  
*August 2020 - Present*

- Volunteered for the NGO, the primary objective being the welfare of animals and providing urgent medical help to animals.
- Conceptualized a safe and widespread door-to-door fundraising campaign during the peak of COVID-19, continuing to date.
- Raised monetary and material resources worth 400,000 INR from the neighborhood, by visiting more than 1200 households.

## SKILLS

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**Technical/Utility:** Python - *RegEx, Pandas, Matplotlib, BS4, PyQT5, SQL Connector*; Java; VBA (Basic); Adobe

**Database/BI:** MySQL Workbench, MS Excel, Data Analysis, Tableau

**Interests:** TSP and OR, Investing, Social Work, Data Science, Astrophysics, Soccer, Video Games, Cricket, Food, Music