



Gautam Agarwal

First-Year Undergraduate
Bachelor of Science - Computer Science
University of Wisconsin-Madison

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EDUCATION

University of Wisconsin-Madison | Madison, WI

[May '23]

Bachelor of Science - Computer Science

GPA 4.0/4.0

- Coursework: Advanced Programming in Java, Advanced Calculus and Linear Algebra, Honors in Mechanics, Introduction to Microeconomics, Macroeconomics and Computer Engineering
- Awards: Dean's List for Fall 2019

ACADEMIC ACHIEVEMENTS

- Cleared IIT JEE in top 1.5 percentile [May '18]
- Scored 96% in Class X (ST. Mary's ICSE, Mumbai) and 88% in Class XII (Pace Junior Science College, Mumbai)
- Secured All India Rank 503 among 200,000+ candidates in Pre-Board International Scholarship Exam.[Jan '18]

PROFESSIONAL EXPERIENCE

Program Developer, The Tata Power Company Ltd., Mumbai, India

[Jul'18 - Oct'18]

Awarded **Letter of Recommendation**; developed a dynamic IoT dashboard to monitor dams

- Designed a PHP language-based web application to monitor hydroelectric dam health
- Devised and incorporated an algorithm to collect and convert information on various parameters including flow rate, reservoir volume, gate integrity into useable knowledge

ACADEMIC PROJECTS

Robo'Mop'

[May'17 - Oct'18]

- Built a remotely operable **automated mopping bot** to cater to the needs of the elderly
- Based on Arduino and Esp8266 protocols in order to integrate a **dynamic IoT dashboard**
- Incorporated **ultrasonic sensors** and related paraphernalia to detect obstacles along the path

SKILLS & LANGUAGES

- Software: Java, C++, Python, Html, CSS, javascript, PHP, Arduino, MS Office
- Languages: English, Hindi, Marwadi, Bengali, Marathi

EXTRACURRICULAR ACTIVITIES

- **Member, Wisconsin Autonomous** [Sep '19 - Present]
 - ❑ Retrain the Yolo darknet model to identify traffic cones through stereo camera
 - ❑ Train Yolo model for scale model to identify mini-traffic cones through stereo camera
- **Member, AI Club** [Sep '19 - Present]
 - ❑ Learn basic principles of deep learning in well-bonded study groups
- **Co-Founder & Treasurer, Badger Cricket Club** [Nov '19 - Present]
 - Created educational games about waste segregation, carbon footprint reduction for MadHacks'19 [Oct '19]
 - Creator of youtube channel 'GA InTheHouse'; includes self-composed indo-western music ['18]
 - Successfully completed a rigorous 1-year course in Yoga conducted by 'Iyengar Yoga' academy ['18]
 - Designed and developed a remotely operated quadcopter during 'Edutronics Quadcopters Workshop' ['18]
 - Secured 4th place; district-level dance competition organized by Rotaract Club of HR College, Mumbai ['12]