



Profile

Personal information

Name GOYAL, SOUMIL
Share different name No
Birthdate 02/08/2006

Contact details

Email, Phone soumil.goyal@yahoo.com.sg, +1.832-212-5160, Mobile, No other telephone
Permanent address 1415 Bonnie Brae St Apt F Houston, TX, 77006-5280, USA

Demographics

Gender Identity Male
Sex Male
Pronouns He/Him
Military status None

Language

Hindi First Language, Speak, Read, Write, Spoken at Home
English First Language, Speak, Read, Write, Spoken at Home
Mandarin Speak, Read, Write

Geography and nationality

Citizenship status Citizen of non-U.S. country
Birthplace Mumbai, India 9 years US
Other citizenships Singapore
Current US Visa E-2 Dependent of Treaty Investor, 20222298780003 Issued: 08/25/2022

Common App fee waiver

Fee waiver requested Yes, Signed: Soumil Goyal

Family

Household

Parents	Married
Home	Both Parents

Parent 1

Mother

Name	Mrs. Dolly Goyal (Mittal)
Email, Phone	dreamgirl2106@yahoo.com, +1.832-773-9978, Mobile
Occupation	Other, Dance Teacher, Self-Employed
Education	Graduated from trade school or community college Masters (2002), MKP College, New Road race course, Dehradun, Uttarakhand, India

Parent 2

Father

Name	Mr. Ashish Goyal
Email, Phone	ashigoyal1@gmail.com, +1.281-687-9342, Mobile
Occupation	Engineer, Employed, Worley
Education	Graduated from trade school or community college Other (1999), Amravati University, New Express Highway, Ram Meghe Square, Badnera, Amravati, Maharashtra, India

Siblings

Dhruv Goyal, Age 13

Education

Current or most recent secondary school

Mirabeau B Lamar Senior High School, 3325 Westheimer Rd, Houston, TX, USA, Public, CEEB: 443405 (09/2020 - 06/2024)

Progression	No change in progression
Graduation Date	06/2024

Colleges & universities

Grades

Rank	18 / 755, Weighted
GPA	4 / 4, Unweighted

Current or most recent year courses

First semester	Second semester
CALC - IB HL AA Mathematics - (IB)	CALC - IB HL AA Mathematics - (IB)
PHYS - IB HL Physics - (IB)	PHYS - IB HL Physics - (IB)
LANG - IB HL Mandarin Chinese - (IB)	LANG - IB HL Mandarin Chinese - (IB)
COMPSCI - IB HL Computer Sciences - (IB)	COMPSCI - IB HL Computer Sciences - (IB)
ENG - IB HL English Language and Literature - (IB)	ENG - IB HL English Language and Literature - (IB)
HIST - IB Psychology SL - (IB)	HIST - IB Psychology SL - (IB)
OTH/ELE - IB Theory of Knowledge - (IB)	OTH/ELE - IB Theory of Knowledge - (IB)
	HIST - Personal Financial Literacy & Economics - (GFTED)

Honors

Vex World Inspiration All Star Award, FIRST District Engineering Inspiration Award, & 19+ trophies	State/Regional, International	10, 11, 12
---	-------------------------------	------------

2x Debate Nationals Qualifier; 2nd-Ranked Extemporaneous Speaker in NSDA South Texas	State/Regional, National	10, 11, 12
Autodesk University Industry Talk Host (2023)	International	12
Future Engineers Veterans' Pin Design Challenge Finalist	National	11
Ambition Accelerator Top Voted Idea & "Inspirational" - Mark King (Taco Bell CEO)	National	11

Community-based organizations

CBO 1	Lamar College Corner
Counselor	Mrs. Cristal Hernandez
Email, Phone	Cristal.Hernandez@houstonisd.org
CBO 2	Communities In Schools
CBO 3	Lamar Writing Lab

Future plans

Other, Roboticist, Doctorate

Testing

SAT tests

Evidence-based Reading and Writing	750	12/01/2023
Math	750	03/21/2023
Taken	1	
Planned	0	
SAT Essay	No	

AP Subject Tests

Government & Politics: United States	5	05/2023
World History	5	05/2022
Human Geography	5	05/2021

IB Subject Tests

Physics-HL-English	04/2024
Psychology-SL-English	05/2024
Computer Science-HL-English	04/2024
English A: Language and Literature-HL	04/2024
Mathematics Analysis and Approaches-HL	04/2024
Chinese B - Mandarin-HL	04/2024

Activities

Robotics

10, 11, 12
School, Break, Year
14 hr/wk, 40 wk/yr
Continue

Team Captain/President, DiscoBots: FRC, Vex, Combat Robotics, and Outreach Teams

Manage 80+ members & 10 teams to create industrial-level, internationally accomplished robots; made team history in most awards each season.

Research

10, 11, 12
Break
3 hr/wk, 20 wk/yr
Continue

Founder/President, Robust Adaptive Network Disaster Response System

Invent & lead a novel solution to disaster response with support of the Mayor of Houston, Taco Bell Foundation, DiscoBots, ION Houston, and more.

Athletics: JV/Varsity

9, 10, 11, 12
School, Break, Year
9 hr/wk, 40 wk/yr
Continue

Other Sport, Black-Belt & Jyokyonim (Instructor), Houston Center For Taekwondo

Learn & compete under the World Taekwondo Federation for sparring, forms, and weapons. Help guide ~10 state-level competing students.

Debate/Speech

10, 11, 12
School
6 hr/wk, 37 wk/yr
Continue

Team Captain/President , Lamar Competition Speech & Debate Team

Competed nationally; guide 50+ students in NSDA, TXFA, UIL and HUDL tournaments; managed through administration to handle organizational tasks.

Other Club/Activity

10, 11, 12
School
2 hr/wk, 30 wk/yr
Continue

Founder/President, Pedal Power Community Project

Solo community welfare project of off-grid, resilient, and climate aware power generation solutions. Won \$750 from NWF and installed the project.

Internship

11, 12
School, Break
4 hr/wk, 19 wk/yr
Continue

Intern & CNC Specialist, ION Houston Prototyping Lab
Restored a professional CNC machine for community use; maintained this industrial facility's manufacturing & engineering equipment.

Internship

10, 11, 12
School, Break
2 hr/wk, 30 wk/yr
Continue

Web Developer/Designer, Steps For Dancing
Learned to design, program, and launch websites; Create and maintain an online presence to help my mother's startup:
<https://www.stepsfordancing.com>

Theater/Drama

9, 10, PG
School
12 hr/wk, 30 wk/yr
Continue

Troupe Officer & Varsity Play Productions Actor, International Thespians Honours Society
Acted in various lead, sub-lead, and technical roles for play productions; coordinated productions, rehearsals, and competitions amongst ~50 members.

Science/Math

12
School
4.5 hr/wk, 36 wk/yr
Continue

Team Captain/President, Lamar Competition Mathematics Team
Compete at a regional and state level in 3 events; manage and mentor 15+ students in competition, SAT, UIL, and higher-level mathematics.

Community Service (Volunteer)

10, 11, 12
School
1.5 hr/wk, 20 wk/yr
Continue

Den Chief; Patrol Lead (2021), Boy Scouts of America (Troop 55)
Achieved Star ranking in USA's largest troop; Volunteer to guide younger scouts in new skills & activities; organized camps and lessons for my patrol

Writing

Personal essay

Some students have a background, identity, interest, or talent that is so meaningful they believe their application would be incomplete without it. If this sounds like you, then please share your story.

“Let’s walk around this way” someone says, but I can’t hear them. While all the others are on their detour, I am spellbound by this hulking giant. Its rusty forks unfold with a practiced ease, aligning perfectly with the sleeves of the commercial waste unit. The machine raises this vessel with a confidence born of experience, feeling the weight through the depression of its front-axle suspension. Once ready, it swings the massive load over the front, resonating clanking vibrations that ripple through the surroundings, turning the mundane act of waste disposal into my captivating spectacle. As the payload is turned upside down, it’s hung high over the receiving hopper, dumping an avalanche of waste. In this moment, the *dump truck* is more than just a machine; it’s a reminder of my identity, interests, and mindset.

In the same way I was transfixed by the dump truck’s machinery, whenever I find a fascinating piece of software, structure, or science, I lose track of time, putting myself in the position of that product developer. I ponder on the foresight the engineers had to make certain that the garbage truck’s forks are still usable even if the vehicle is on an incline. I admire the programmers that created robust threads of continuous sensor-checks that protect from thousands of failures. I look up to the designers who had to ensure the garbage truck’s center of gravity would remain positioned well enough that swinging the heavy bin over the front wouldn’t be a hazard.

All these ingenious thinkers juggled countless factors like durability, cost, safety, manufacturing difficulty, regulations, repairability, and time-constraints to finish this spectacular product, an invention that serves as a backbone of essential infrastructure.

As I aspire to be part of that impactful community of makers, I am continuously thankful that I have the opportunity to lead in a similar way. For example, from my current experience as the team captain of a large, growing robotics team, I practice the intricate trade-offs, balances, and decision making required of a successful leader. While managing 80+ members across 7 separate schools to develop industrial-level, internationally competing robots, I regularly face crossroads where all decisions come with a list of cons and wishes of pros. Every path is uncertain: every path looks good, yet every path seems bad. Although such a position deters most minds, I find myself, again, spellbound by the role of this leader. I swiftly, yet level-headedly, analyze possibilities to proceed on the best-seeming path, conquering obstacles, failures, and surprises along the way.

Additionally, these successes never happen alone. Akin to the way that garbage trucks don’t function without waste containers, and the whole system doesn’t work without landfills, I recognize the vitality of collaboration and work with all to achieve greater accomplishments.

Furthermore, as I advance through this maze of choices, I make use of my deeply reflective nature to squeeze all the lessons learned from any result through the process. This builds a collection of clues and maps, an arsenal of experience to guide future journeys. Moreover, I am always ready to discard any opinion or notion proven wrong along the way, disciplining myself that my attachment to any beliefs should not restrict my potential and my actions.

This combination of observation, decision-making, leadership, and reflection is a core mentality so meaningful to me that all my successes are attributed to this critical mindset. More importantly, all my failures are systematically reflected upon and built from to enhance my overall foresight and character for the future. With this approach, a cornerstone of my identity, I aim to leverage these traits in guiding teams towards collaborative success.

By weaving the harmony of curiosity, adaptability, and resilience into the fabric of leadership, I endeavor to inspire others in navigating our world's intricate terrains, unveiling unique, impactful solutions—each akin to their own dump truck, a critical culmination of multifaceted design with purposeful execution.

Community disruption

My family and friends have endured the Mumbai Floods, Turkey Earthquakes, Hurricane Harvey, and Winter Storm Uri. These events left a profound impact on my outlooks and initiatives.

Living through the floods, storms, winds, ice, and debris was an ever-present sense of impending doom. It was scary knowing if there was some emergency, we had no means of calling for help. It was dreadful knowing that as our supplies dwindled, there were no shops to stock up essentials.

Despite these experiences, I consider myself lucky that my immediate family escaped permanent harm. This fortune reminded me of the capricious, unforgiving nature of such events and their far-reaching consequences.

This recognition of the unresolved challenges society faces in dealing with natural disasters led me to inventing the Robust Adaptive Network (RAN). RAN is a system of drones and rovers that provides essential cell signals, delivers urgent supplies, and relays important information during disasters. I've worked on this project with support from the Mayor of Houston, the Taco Bell Foundation, DiscoBots, Ashoka, ION Houston, and more.

But even with my current programming models, 3D designs, and system prototypes, I acknowledge the years of challenges ahead in realizing my invention. This is a significant reason of I want to

study Engineering and Computer Science in college. I believe that many global problems can be addressed through advances in technologies similar to RAN. My pursuit of your world-class education and my insights from personal experience drive me to solve pressing issues in the world.

Additional information

1) After my birth in India, my family relocated to Singapore, where we settled and gained citizenship. Unexpectedly, when I was 8, we moved to the US for a 2-year project in my father's job. However, as that job lengthened to various reassignments and the 2 years extended indefinitely, I have now lived in the US for the rest of these 9 years. However, as still a Singaporean citizen, I now face my mandatory military service term.

The prospect of diverging from the traditional trajectory and delaying my college experience is undeniably disheartening. While the excitement of higher academics approaches for many, I have to trudge on a different path. It's easy to perceive this as a setback, an interruption to the flow of education and personal growth, but I choose to cultivate a positive mindset. I see this national service commitment as a unique chapter in my life's narrative. It's an opportunity to embrace a change in lifestyle and forge bonds in my old home. By approaching this mandatory service with an open mind, I anticipate gaining valuable insights and skills that will enrich my future journey.

In the face of detours, I find strength in adaptability. Rather than viewing these two years as a delay, I see them as an investment in a more holistic self. I am eager to embrace every twist and turn in life's journey, knowing that each experience moulds me into a more resilient, open-minded individual, prepared for the challenges and opportunities that lie ahead.

2) One unique result of my Indian, Singaporean, and American culture exposure is my proficiency in Hindi, Mandarin, and English.

I hold the traditional backgrounds and perspectives of my heritage to be very valuable. This is one of the reasons I maintain a native proficiency in my mother tongue, Hindi. Along with this, my education outside home has been in English, so I am also natively proficient in English.

However, after being born in India and immigrating to Singapore, I decided to pursue learning Mandarin so I could better connect with the vast majority of Singaporeans who are Chinese. Even after advice against learning this impossible language at that late age (especially since most Singaporeans speak English anyways), I worked hard to learn the language and surpassed some native speakers of my age. Although I am now in the US, where I lack much incentive to keep up my Mandarin, I still practice and improve. I have written essays, won speech contests, and can hold a proper conversation in Mandarin. I am especially proud of this skill because I do not have any Chinese relatives/background to build off of, I instead had to start independently and have successfully reached a respectable position.

3) I would like to highlight some of my community involvements, here is a link to my community-hours log: <https://docs.google.com/document/d/1NMJOxV938IkRo2drqXECyAFeHCo1ZYmL/>

Through this record, you can see that a majority of my community service hours log are dedicated to actions like teaching younger peers or volunteering at educational competitions. One reason for this is because of the high value I place on education. I am grateful for inspiring education I have received, and I admire the power to inspire others similarly. Additionally, especially relating to my 90+ hours of community service towards multiple competition, as a competitive student, I have been thankful for all the competitions I have been able to participate in. Amongst these events, none of them ran without volunteers, meaning that my accolades, skills, and experiences were built upon the gracious selflessness of other volunteers. From this, I have a calling to continue their impacts by volunteering in competitions, ensuring that any other students will have the opportunity of smooth, fair, and constructive competitions.

Thanks for reviewing my application.

Sincerely,

Soumil Goyal

Education progression

Details

Education progression details No change in progression

Georgia Institute of Technology questions

General

Preferred start term	Fall or Summer 2024
Are you currently attending a Georgia High School?	No
Are you a resident of the state of Georgia currently attending high school outside the state?	No
Admission plan	Regular Decision 01/04/2024
First Generation	No
Live in a FEMA declared disaster list county	No
School Specific Fee Waivers	No, I do not meet the conditions listed.

Academics

Academic Program	Mechanical Engineering
Alternative Majors	Computer Science
Would you be interested in spending your first fall semester as part of Georgia Tech's FYSA program?	Yes

Activities

Activity 1	Undergraduate Research
Activity 2	Campus or Community Service
Activity 3	Co-op or Internship Programs
Activity 4	Entrepreneurship

Contacts

Previously applied	No
---------------------------	----

Contact Consent

I consent to be contacted by Georgia Institute of Technology at the mobile phone number provided below.

Mobile Phone Number: +1.832-212-5160

Georgia Tech Essay Questions

Why do you want to study your chosen major specifically at Georgia Tech?

Throughout my journey in robotics, one of the most noteworthy moments was during the 2022 *FIRST Robotics Competition*. In this contest, my team and I were tasked with creating a robot capable of collecting and shooting large balls into a small, 9-foot-high hoop. Through astute design, iterative engineering, and meticulous fine-tuning, our robot not only functioned but also exceeded our own abilities! Witnessing our creation outperform its creators revealed the captivating potential of engineering. And even though numerous other high school teams undertook the same quest, the obstacles we each encountered were exclusively ours to overcome. Each team works within its unique constraints of tools, resources, or group dynamics. Thus, it wasn't just about shooting balls into a hoop; it was about uncovering unknown possibilities and crafting solutions for unique challenges - an aspect that beckons me to expand the capabilities of myself, my peers, and our unique circumstances.

Today, my ambitions reach far beyond winning robotics tournaments. I yearn to develop revolutionary robots, tools, and concepts capable of bettering the world. To accomplish this, I recognize the need to propel myself forward by polishing my skills, broadening my knowledge, and amassing invaluable experience. In this endeavor, Georgia Tech's *Mechanical Engineering* program is in sync with the mindsets I perceive in the spirit of engineering. I wish to enroll in these programs because they resonate with my values of not just being a learning platform, but an opportunity to immerse myself in a culture that prides itself on pushing boundaries. The hands-on approach at GT, brimming with dream-like spaces of the *Student Competition Center*, *Flowers Invention Studio*, and *Interdisciplinary Design Commons* plus the atmosphere of a changemaker's mindset, will empower me to devise solutions that once again surpass our boundaries, thereby learning how to tackle the world's unique, unsolved issues.

Military

Do you plan to use VA Educational Benefits? No

Are you currently active duty, a veteran, a member of the National Guard, or a Reservist in the U.S. Armed Forces? No

Are you the spouse or dependent child under the age of 24 of someone who is currently active duty, a veteran, a member of the National Guard, or a Reservist in the U.S. Armed Forces?

Family

What is the highest level of education obtained by your parent(s)/legal guardian(s)?

Baccalaureate Degree (BA, BS, etc.)

Parent/Legal Guardian 1:

Parent/Legal Guardian 2:

Baccalaureate Degree (BA, BS, etc.)

Relatives attended member

No

Sibling applied

No

Relative employed at member

No

Student Residency

Are you a student from a homeless situation as defined by Georgia Code Section 20-3-66(4)?

No

DACA

No

Are you applying for in-state tuition?

No

By selecting "No" to the above question, you will be categorized as an out-of-state (non-Georgia resident) student for tuition purposes. Is this correct?

Yes

Other Information

Have you ever been convicted of a crime other than a minor traffic offense?

No

Are there any criminal charges currently pending against you?

No

Have you ever been found responsible for a disciplinary violation at any educational institution you have attended from the 9th grade (or the international equivalent) forward, whether related to academic misconduct or behavioral misconduct, that resulted in a disciplinary action?

No

Subject of Discipline

No

Affirmations

Affirmation Soumil Goyal

USG Consent Yes, I consent to share my information with the University System of Georgia.

Affirmations

By submitting this application, I affirm my understanding of and agreement to the statements found here: <http://www.commonapp.org/affirmations>.