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| [soumil.goyal@yahoo.com.sg](mailto:soumil.goyal@yahoo.com.sg)  +1 (832) 212-5160  Houston, TX  **Languages**   * Mandarin Chinese: intermediate proficiency * Hindi: native proficiency * English: native proficiency   **</Languages>**   * HTML, CSS, JavaScript, PHP, Typescript (Web Development)   + Bootstrap, JQuery, BabylonJS, TensorflowJS * Python (Scripting, APIs, Machine Learning)   + Matplotlib, Tensorflow, Numpy, Pandas * Java (Control, Scripting, Graphics)   + Graphics2D * C++ (Control, Scripting)   + LVGL   **Awards/Honors**   * Ambition Accelerator Best Voted Idea (2023). * World championship Inspirational All-Star Award. * 14x regional, state, and international level Vex Robotics trophies. * FRC Team Sustainability Award * FRC District Engineering Inspiration Award. * 2x General Motors Industrial Design Award. * 2nd Ranked Extemporaneous speaker in Texas District Tournament. * 4x NSDA Nationals qualifier. * University of Texas debate tournament elimination-round participant. * Guest Speaker at Vex Robotics World Championship. * Industry Talk host at Autodesk University 2023. * Houston Resilience Design Challenge Prize Winner. * Veterans’ Pin Design Challenge Finalist. * Fusion 360 Certified User. * OSHA General Industry Safety Certification. * Vex State Championship Amaze Award. * Rice Elite Tech Camp scholarship recipient. * Worldwide Taekanagwon Open Poomsae Championships Gold Medallist. * Taekwondo Black Belt and Jyokyonim (instructor). * Winner of CCZJV Arts Contest. * “Superior” Rating at International Thespians Competition. * Induction to International Thespians Honour Society. * IB Diploma Candidate. * Rise Scholarship Program Finalist. * West Houston Leadership Summit nominee & attendee. * National Merit Scholarship Semi-Finalist. * Schoolhouse.World physics and SAT certification. * Superior Junior Cadet Decoration Award. * Duke TIP Grand Recognition Scholar. * National Honours Society member. * 1500 SAT Superscore | **SOUMIL GOYAL**  An interdisciplinarity-minded, experienced, and accomplished student  **Jobs/Internships**   * ION Houston; intern, CNC Specialist: work to maintain the ION Prototyping Lab’s equipment, develop new facilities, and coordinate the completion of needed tasks. * Steps for Dancing; web designer/developer: created a custom-coded website for SFD from scratch. Still regularly maintain, update, and grow the company web-presence. Also involved in digital & physical marketing. * Dwayne Publishing; web designer/developer: created a custom website for author D Wayne and continue to maintain his web presence.   **Projects**   * Robust Adaptive Network; founder/president: invented a system of drones and rovers to save lives in natural disaster, found thousands of dollars of resources for the invention, and continue to develop this robotic project. * Pedal Power; founder/president: invented a project that charges students’ devices by pedalling a bicycle. Received a grant to complete the project and implemented the public project in my school successfully. * Publications: work with industry professionals to publish engineering research material following ISBN, API, ISO, ASME, ASTM guidelines. * Champion Cubers; founder/president: created my own business from scratch to teach local children how to speed-solve the Rubik’s Cube in exchange for a fee. * Screen Salvagers; founder/president: collected 400+ lbs (180+ kg) of waste polymethyl methacrylate (PMMA) and reused it in structural robotics & engineering education applications.   **Experience**  **Robotics**   * Vex Robotics; captain: developed and lead 3 teams of 30+ students to design, build, program, and practice with robots that compete at an international level. * FIRST Robotics, captain: lead a team of 40+ students across 6+ schools to design, build, and program an industry-level robot to compete at an international level. * Combat Robotics, lead: direct about 10 people to collaborate and craft open-sport, professional combat robots. * Lanier Robotics, mentor: volunteer to guide ~40 students in beginning their robotics journeys.   **Communications/Debate**   * Speeches: I have given speeches, industry talks, and lectures at very high levels including the General Consulate of India, the Vex Robotics World Championships, and the Autodesk University. * Competition Debate Team; captain: mentored and lead a high-level, competitive debate team to national-level competitions in NSDA, TXFA, UIL, and HUDL speech & debate competitions. * Honours Debate Course.   **Engineering**   * Design Challenges: participated in many competitive design challenges including ones hosted by Future Engineers, Printable, National Wildlife Federation. * Autodesk University; industry talk: selected (and some others) amongst thousands of applicants from professionals, CEO’s, businesses, etc. to give an industry talk at one of the biggest engineering conferences. * 2024 TinkerCAD Summit special guest. * IB HL Physics course, IB HL AA Mathematics course, Principles of Engineering & Design course.   **Computer Science**   * Computer Science Honors Society; officer: manage and mentor 50+ members involving community service, competitions, projects, and workshops. * Web Development   + Steps For Dancing Website <https://www.stepsfordancing.com>   + Champion Cubers website <https://www.championcubers.cf>   + Personal Portfolio Website <https://www.soumilgoyal.ga>   + 3D Game Website <https://www.soumilgoyal.ga/3d-game>   + Freshman User Guide Website <https://www.soumilgoyal.ga/freshman-user-guide>   + Dwayne Publishing: <https://www.dwaynepublishing.com> * Cybersecurity; club officer: manage 10+ members in activities, lessons, and events. * IB HL Computer Science 2 course.   **Athletics**   * Swimming: competed up to a state-level and continue to practice as a hobby. * Soccer: compete in a local club as a midfielder. * Taekwondo: lead 5-10 team members in a traditional-style school through various competition events.   **Arts**   * International Thespian Honour Society; officer: project-managed play productions and team rehearsals amongst ~50 members. * Visual Arts: Self practiced hobby in both digital and physical forms. Used this skill to create marketing posters, web-designs, and book covers. * Speeches: performed competitive (impromptu and prepared) speeches in 3 different languages.   **Other**   * Business: worked closely with business leads like Steps for Dancing and Band and Masters to make my own business: Champion Cubers. * Teaching: effective at teaching others as practiced in numerous teaching/leadership positions. Certified tutor on schoolhouse.world. * JROTC; S1: responsible to manage all personnel resources, supplies, and advancement readiness. * Scouts; Den Chief: used my experience to train 30+ younger scouts on technique, lessons, and principles.   **Community Service**   * <https://docs.google.com/document/d/1NMJOxV938lkRo2drqXECyAFeHCo1ZYmL/> |

Other community service projects:

* Autodesk University Industry Talk Host: spoke to international leaders, executives, professionals, and businesses on “How to Advance the Future of Engineering Education”.
* Teen Leadership Summit: nominated and attended the West Houston Teen Leadership Summit targeting community issues in the local community and government.
* AYM/DAVSS: My Sunday school for learning about Hindu culture and volunteering in various community activities & Indian festivals.
* RAN: an invention I am developing with the Mayor of Houston to prevent casualties during natural disasters using drones and rovers.
* Veterans Pin: CAD-designed, and 3D printed a wearable pin for US veterans at Veterans Day 2023.
* Screen Salvagers: collected 480+ pounds of waste plastic material around Lamar and repurposed it towards engineering/robotics education projects.
* Discobots Outreach: visit middle schools, conduct community service, and run tournaments on behalf of the robotics team. I also recruit schools without any robotics programs to join our team to give students access to robotics competitions.
* Pedal Power: a community-benefit project of a stationary bicycle that charges your phone to encourage less electricity usage and off-grid energy solutions.
* Scouts/Den Chief: volunteer as a mentor for younger peers through boy scouts.
* Lanier Robotics: head coach and mentor for Lanier Middle School’s robotics teams.
* Taekwondo: a junior instructor for my younger peers in Taekwondo classes.
* IB Ambassador: represent Lamar and mentor younger IB Diploma Candidates.
* Neighborhood Ambassador: represent my body of students and problem-solve community issues through the school.
* Schoolhouse.world: tutor international students on SAT, Physics, Math, and more online.
* Ion prototyping Lab: internship where I maintain a community makerspace including restoring an industrial CNC machine.
* Computer Science National Honours Society: support growing computer science literacy through various community events and projects.
* National Honour Society: volunteer through regular community service activities both in and out of the school; NHS scholarship finalist (further results pending).