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| 425-260-7295 | | shrutib.com | shrutibadrish@gmail.com | linkedin.com/in/shruti-badrish/ |
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| Shruti Badrish  senior at redmond high school  Redmond, WA | | | | |
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| Objective |  | Shruti Badrish is a senior at Redmond High School. She is interested in STEM fields and has a passion for computer science and mathematics. She is the owner and founder of Stemity, a non-profit organization dedicated to fostering STEM interest in elementary and middle school students. | | |
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| Education |  | 2023-2024 | Bellevue College Courses: Calculus III, Calculus IV | |
|  |  | 2020-2024 | Redmond High School GPA: 4.0  AP Courses: Calculus AB, Computer Science A, Chemistry, Physics C: Mechanics, English Language & Composition, Calculus BC, Environmental Science, U.S. Government, Biology, Statistics, Psychology  Honors Courses: Algebra 2, Biology, Art 1, Pre-Calculus, Spanish 2, Spanish 4, English 12  Clubs: Science Olympiad (competitions coordinator), Video Game Design (co-president), National Honor Society, Math Club, AI Club, Art Club, Computer Science Club | |
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| Standardized Tests |  | Aug 2022 | SAT: 1590 (800 math, 790 EBRW) | |
|  |  | Oct 2022 | PSAT: 1510 (760 math, 750 EBRW) | |
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|  |  | May 2023 | AP Calculus BC: 5 **AP Environmental Science:** 5  **AP English Language & Composition:** 5  **AP Physics C: Mechanics:** 5 | |
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|  |  | May 2022 | AP Chemistry: 5 **AP Computer Science A:** 5  **AP Calculus AB:** 5 | |
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| Research Experience & Projects |  | Aug-Oct 2023 | TrashPic  * Project Name: TrashPic * Description: A machine learning model and smartphone app to classify pictures of items as recyclable or waste, in order to streamline recycling. * Under submission to Congressional App Challenge. | |  |
|  |  | Jun 2023-present | In Person Conversation Analysis  * Project Name: In Person Conversation Analysis * Description: A web app that keeps track of different speakers and measures conversation quality. * Name of University: University of Washington * Lab: Ubiquitous Computing Lab * Position: Paid research intern | |
|  |  | Sep-Mar 2023 | WalkSmart  * Project Name: WalkSmart * Description: A new machine learning-based real-time gait analysis technique using smartphones to mitigate ambulatory fall incidents. * Presented at Washington State Science and Engineering Fair (WSSEF)   + Won First Place   + Won U.S. Navy Office of Naval Research Naval Science Award | |
|  |  | Feb-Apr 2022 | #trashtag  * Project Name: #trashtag * Description: A video game that emulates the cleaning of a littered beach, designed to spread awareness about pollution and encourage the player to clean a beach in real life. | |
|  |  | Feb-Apr 2021 | The Lost Island  * Project Name: The Lost Island * Description: A fantasy text-adventure game in which the player must defeat a dragon terrorizing an island. * Submitted to the Washington State PTA Game Development Competition   + Won first place in the “Board/Text/Card Game” category | |
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| Work Experience |  | 2023-present | Kumon, Redmond, WA  Center Assistant GraderEarly Learners Assistant |  |

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| Volunteer Experience |  | 2020-present | Owner and Founder of Stemity, a non-profit for educationFounded in 2020, conducted STEM-based competitions for charity (stemity.org)Expanded in 2021-22, conducted STEM-based interactive workshops (stemity.net) |
|  |  | 2022 | Counselor for Girls Rock Math |
|  |  | 2022 | Tutor for Essay Writing at North South Foundation |
|  |  | 2022 | Teaching Assistant (TA) at Einstein Elementary |
|  |  | 2022 | Facilitator for the Julia Robinson Mathematics Festival (JRMF) |
|  |  | 2019-2020 | Teaching Assistant (TA) at Einstein Elementary |
|  |  | 2019-2020 | Activity Volunteer at Einstein Elementary |
|  |  | 2019 | Proctor, Math Challenge Masters Tournament |
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| Awards & Honors |  | 2023 | **National Merit Scholarship (NMSC) Semifinalist** |
|  |  | 2023 | **AP Scholar with Distinction Award** |
|  |  | 2023 | U.S. National Chemistry Olympiad (USNCO): State finalist, advanced to Nationals |
|  |  | 2023 | Washington State Science and Engineering Fair: 1st place, U.S. Navy Office of Naval Research Naval Science Award |
|  |  | 2023 | U.S.A. Computing Olympiad (USACO): Gold Division |
|  |  | 2023 | North South Foundation:State: 1st place (Computer Science), 1st place (Public Speaking) |
|  |  | 2022-2023 | Fall AMC 12B Score: 85.5 – Qualified for 2023 AIME I |
|  |  | 2022 | AP Scholar Award |
|  |  | 2022 | North South Foundation:Nationals: 9th place (Computer Science) |
|  |  | 2022 | National Novel Writing Month (NaNoWriMo) Challenge Winner |
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|  |  | 2021-2022 | **Fall AMC 10A Score: 96 – Qualified for 2022 AIME II** |
|  |  | 2020 | **Washington State PTA Game Development Competition:** 1st place in “Board/Text/Card Game” category |
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|  |  | 2023 | Science Olympiad:State: 3rd (Astronomy), 5th (Team) |
|  |  | 2022 | State: 4th (Chemistry Lab), 6th (Team) |
|  |  | 2021 | State: 6th (Codebusters) |
|  |  | 2019 | State: 2nd (Herpetology), 3rd (Road Scholar), 1st (Game On), 2nd (Team) |
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|  |  |  | **Reflections:** |
|  |  | 2022 | LWSD Award of Excellence for *This is How You Change a World* (advanced to state) |
|  |  | 2021 | LWSD Award of Excellence for *Face of the Future* (advanced to state) |
|  |  | 2020 | LWSD Award of Merit for *Concealment* (advanced to state) |
|  |  | 2020 | **You Be The Chemist:** State champion |
|  |  | 2020 | **MATHCOUNTS:** 6th in chapter (team) |

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| Publications |  | 2023 | Shruti Badrish. WalkSmart – A New Machine Learning-Based Real-Time Gait Analysis Technique using Smartphones to Mitigate Ambulatory Fall Incidents. https://shrutib.com/papers/gait-based-fall-prevention.pdf |

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| Skills & Certifications |  | Programming  Languages | Java, Python, C, C++, C#, HTML/CSS/JS, React jsx |
|  |  | Udemy | Game Development using Unity Engine & C# |
|  |  | Coursera | Algorithms (by Dr. Robert Sedgewick, Princeton University) |
|  |  | MIT BeaverWorks | Python **Version Control with Git**  **Autonomous Cognitive Assistance (CogWorks)**  **Remote Sensing for Disaster Response** |

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| Languages |  | English | Native proficiency |
|  |  | Tamil | Native proficiency |
|  |  | Spanish | Working proficiency |
|  |  | Sanskrit | Working proficiency |
|  |  | Hindi | Limited proficiency |

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