

**Aryan Samal**  
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## EDUCATION

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2018 – 2022	<b>Liberty High School</b>			Frisco, Texas
	SAT: 1510 (Math – 750; Reading – 760)	GPA – 3.981	Weighted GPA – 5.568	Rank: 11/552

## COMPUTER SCIENCE AND PROGRAMMING EXPERIENCE

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- Advanced Computer Science 3 (2021 - 2022)
  - Data structures; Algorithms; Multi-threaded programming; Networking.
- UT-Dallas Database & SQL Programming (2021)
  - Database programming using Java on MySQL DBMS.
- IT Technician, Computers for the Blind, Richardson, Texas (2020-2021)
  - Refurbish old laptops/desktops; Install software for blind people's use; Troubleshoot IT issues.
- UT-Dallas Object Oriented Programming (OOP) in Java (2021)
- AP Computer Science Principles (2020 - 2021)
- AP Computer Science A: AP score: 4 (2020 - 2021)
- UT-Dallas Intermediate Python Programming (2019)
- Pre-AP Computer Science (2019-2020)
- UT-Dallas Creative Coding with JavaScript (2019)

## PERSONAL SOFTWARE PROJECTS

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**Activities of Daily Living (ADL) Alert**, Java Application, MySQL DBMS, 2021, [Source code link](#)

- Implemented GUI in Java AWT and swing classes for users to schedule tasks with priority, and repeatability which allows tasks to be auto re-scheduled same day and time of the following week.
- Program implemented MySQL DB, and table to store and manage tasks.
- Program implemented Java timer class to raise task alert on timer expiry at scheduled time.
- Uses Java SQL API to access and manage database table data.
- Proficient in SQL select, insert, update and delete statements.
- Integrated Twilio REST API and used its gateway to send SMS alert message to cellphone on task timer expiry.

**Therapy Guide**, Java Application, 2020, [Source code link](#)

- Implemented GUI in Java AWT and swing classes.
- Auto-selects appropriate physical therapy postures based on desired body areas to be exercised.
- Therapy postures are identified, grouped and programmed.
- Displays selected posture image and instructions to perform physical therapy procedures.

## VOLUNTEERING

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<b>Computers for the Blind</b> – <i>IT Technician</i> ; Richardson, Texas	4 hours/week
11 <sup>th</sup> – 12 <sup>th</sup>	20 weeks/year

- Non-profit organization that accepts old laptops and desktops, and refurbishes them for blind people's use.
- I work on replacing the hardware of these computers such as RAM, SSDs, and batteries.
- Install JAWS (Job Access with Speech), a text-to-speech screen reader software which auditorily outputs all screen content, helping blind person navigate their computer.
- Boot into the system's BIOS and test all aspects of the software.
- Troubleshoot disk, driver, ethernet, Wi-Fi and other IT related issues.
- For clients with less severe blindness, I install ZoomText which is a screen magnifier that zooms in on screen content, thus enhancing the computer experience for semi-blind users.

<b>Kumon Math and Reading</b> – <i>Tutor</i> ; Frisco, Texas	3 hours/week
11 <sup>th</sup> – 12 <sup>th</sup>	15 weeks/year

- Worked as a tutor teaching middle and high school students Geometry, Algebra and English vocabulary.
- Taught dozens of students per day in a wide variety of mathematical and literature concepts.
- Graded math and English home works.

**Love Truck – Volunteer**, St. Elizabeth Ann Seton Church; Plano, Texas

3 hours/week

7<sup>th</sup> – 12<sup>th</sup>

12 weeks/year

- Non-profit organization that supports charity efforts to St. Elizabeth Ann Seton Church, 2700 W. Spring Creek, Plano. It accepts food donations, clothing and sundry household materials.
- Volunteering for the past 6 years at Love Truck Food Pantry, I manage food and sundry items, and packages them into boxes to be donated to the local Dallas area food pantries and people in need.
- Coordinate volunteering efforts with half a dozen other high schoolers to create an efficient system that supplies food and clothing to hundreds of homeless people in the DFW Area.

**Vibha – Member**

2 hours/week

7<sup>th</sup> – 12<sup>th</sup>

10 weeks/year

- Non-profit organization that aids underprivileged children in India by holding a number of fund-raising events throughout the year. Funds are used for children's health and education.
- I participated in the events such as kite flying festival, dream mile, and other youth events to raise money that goes directly to support impoverished children in India by providing them with food, water, shelter, and learning materials.

## EXTRA CURRICULAR

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**Liberty HS Orchestra Club – Officer**

4 hours/week

11<sup>th</sup> – 12<sup>th</sup>

24 weeks/year

- Violinist for the past 6 years, officer for 2 years, and participated in a number of competitions such as Texas UIL.
- Orchestra officer in charge of planning 1-2 orchestra-related events per month, throughout the year.
- Oversee 12-15 freshmen orchestra students and serve as a mentor to them, helping them learn better their instrument and also navigate the intricacies of high school orchestra.

**Youth and Government – Member**

3 hours/week

9<sup>th</sup> – 12<sup>th</sup>

15 weeks/year

- Simulated legislative branch of the government, where members create and debate legislative bills to get it passed.
- Competed in state level competition at Capitol, Texas for three years in a row debating a bill regarding the increased use of renewable energy sources within corporations.
- Honed public speaking abilities, while also learning how to debate and interact in a professional environment.

**National Honor Society (NHS) – Member**

2 hour/week

11<sup>th</sup> – 12<sup>th</sup>

20 weeks/year

- Prestigious club with a merit-based membership that offers a number of volunteering opportunities throughout the year.
- Instills the values of leadership and courage within members through service-based activities that benefit a community.

**Key Club – Member**

2 hours/week

10<sup>th</sup>

14 weeks/year

- Service-based club that has dozens of volunteering opportunities for students to participate in.
- Volunteering opportunities help build character, develop leadership, and involve with community.

## WORK EXPERIENCE

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**Gideon Math and Reading – Tutor**; Plano, Texas

8 hours/week

June, 2021 – September, 2021

- Taught Geometry, Algebra to middle and high school students. Worked with students on a one-on-one basis.

- Taught math and English vocabulary to elementary and middle school students.
- Graded math and English home works.

**Korean Dessert Cafe, Sul & Beans – Cashier;** Plano, Texas

12 hours/week

May, 2021 – August, 2021

- Sul & Beans is a Korean desert café that specializes in creating milk-based, shaved ice dishes, commonly referred to as *bingsoo*.
- Worked as a part-time cashier at Korean Dessert Cafe, Sul & Beans where I gained experience handling over \$300/shift cash transactions diligently, as well as serving people food while developing my communication skills.
- Greatly improved my ability to professionally interact with customers and co-workers alike, while also maintaining precision and efficiency in a high-stress work environment.

**Honors and Awards**

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9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup>	Youth and Government: Attended state-level competition.
11 <sup>th</sup> , 12 <sup>th</sup>	NHS Membership – National Honor Society at Liberty High School.
11 <sup>th</sup>	AP Scholar with Distinction.
10 <sup>th</sup>	AP Scholar
9 <sup>th</sup>	Academic All-Star Award.
9 <sup>th</sup>	UIL Scholar Sward.