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**Riya Senthil**110 Galway Cir, Chalfont, PA 18914  
ryasenthil8@gmail.com**EDUCATION****Central Bucks High School South, Warrington, PA** Expected Graduation: June 2022

- AP Coursework
  - Completed: Chemistry (5), Biology (4), Computer Science Principles(4), Calculus AB (5).
  - Ongoing: Calculus BC, Physics (Newtonian Mechanics), Statistics, Macroeconomics.
- GPA: Unweighted: 3.7949 Weighted: 4.2179
- SAT Super score: 1490, Math: 780, ERW: 710

**Summer Institute for the Gifted (SIG) at Princeton University** Summer 2018

- Coursework in engineering, genetics, algebra, and microbiology

**University of Pennsylvania Girls in Engineering Math and Science Program (Penn GEMS)** Summer 2018

- One of 70 students accepted from a pool of 300 applicants

**HONORS & AWARDS****2022 Commended National Merit Scholar**

- Scored within top 50,000 students nationwide who took the PSAT in 2020

**Johns Hopkins Center for Talented Youth Advanced Level in English and Math****First Lego League (FLL) 3rd Place Robotics Award**

- Won 3rd place out of 45 regional finalists in UPenn at 2018 Southeast Finals

**Shaolin Kempo Karate 2nd Degree Black Belt**

- 8 years of training and knowledge of over 100 combinations and 14 forms

**2019 1st Place Sparring, Villari's Shaolin Kempo Karate PA Regional Tournament****2018 2nd Place Sparring, Villari's Shaolin Kempo Karate PA Regional Tournament****2018 4th Place Self-Defense, Villari's Shaolin Kempo Karate PA Regional Tournament****2018 Robert M. Gendall Award:** given to 4 students out of 270 in my grade for exemplary class participation**EXPERIENCE****Two Research Projects: (1) Predicting Recessions and (2) Predicting Breast Cancer using Machine Learning** 2021

- Guided by Prof. Badrinath Kottimukkalur of George Washington University
- Predicted the presence of malignant breast cancer cells using features from histological cell images.
- Predicted Recessions using data from Federal Reserve Economic Data
- Self-taught Python coding language

**Volunteer at Lansdale Abington Jefferson Hospital** March 2020-present

- Manage front desk duties, such as checking patients in, delivering packages, and communicating patient statuses with nurses
- 4-5 hours a week, 47 weeks a year.

**Blood Drive Coordinator, Red Cross Club** December 2019-present

- Coordinated blood drive of over 60 people
- Raised \$160 for the Red Cross

**FLL Robotics Junior Mentor** Present

- Taught children robotics building and coding

**FLL Robotics Leader and Member** 2018-2019

- Founded all-female robotics team, recruited 4 peers, and participated in tournaments.
- Designed, developed and coded multiple robots to complete competitive tasks

**Leadership Program at Villari's Self-Defense** December 2018-present

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- Organize and set up tournaments
- Volunteer to help younger kids with their forms
- Organize fundraisers for Manna on Main Street, raising ~\$11,000 each year

**CLUBS AND ACTIVITIES****Villari's Shaolin Kempo Karate** 2013-Present

- Second-degree black belt

**First Tech Challenge: Robotics** October 2021-Present

- Member of school team to participate in robotics competitions

**National Honors Society** October 2020-Present**Science National Honor Society** October 2020-Present**Titan Senate (Student Council)** September 2020-Present

- Organized set and created COVID precaution rules for Junior Prom

**Young Democratic Socialists of America (YDSA)** September 2020-Present

- Advocate for social issues such as walking door to door to encourage people to vote in the school board election
- Raised money for a bake sale for LGBTQ+ event, raising a total of \$300 dollars

**Chem Club** September 2019-Present**Health Occupations Students Of America (HOSA)** September 2019-Present

- Learned about professions in the health field
- Designed Healthy Lifestyle projects

**First Lego League (FLL) Robotics** 2017-2019

- Dedicated 5-6 hours a week to robotics
- Designed, developed, and coded a robot
- Won overall 1st place award and 1st place robotics award at Hatboro Horsham Qualifier Event in 2017 and 2018
- Won Teamwork award and 3rd place robotics award at UPenn regionals in 2019

**Red Cross Club** September 2019-Present

- Help in my community by raising money for the red cross
- Spent a total of 25+ hours volunteering

**Four Diamond Minithon** November 2019

- 6 hour event dedicated to fighting childhood cancer
- My group raised a total of \$200 for cancer

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