

# Arushi Sharma

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## EDUCATION

- **High School:** James Bowie High School, Austin, Texas
- **Class Rank & GPA : Rank:** 9/703 (Top 1%) **GPA:** Unweighted (College Board): 4.0/4.0; AISD Weighted: 4.55/5.0
- **AP Coursework (11):** Computer Science A, Computer Science Principles, Calculus BC, Physics, Chemistry, Macroeconomics, World History, US History, English Language, English Literature, and Spanish 4.
- **SAT:** Superscore:1560 Math: 800, Reading/Writing: 760

## SKILLS & TRAINING

- **Computer Languages & Tools:** Java, JavaScript, Python, HTML/CSS, Scratch, C++, Swift, and my SQL
- **Online Courses:** Stanford: Algorithms, App Development; MIT: Linear Algebra; IBM: Python for AI; UC San Diego: Machine Learning Fundamentals; Georgia Tech: Computing in Python; Swift iOS Developer Course
- **UT Austin First Bytes Computer Science Summer Camp 2019:** *Selected to participate in the camp*
  - Programmed a project that synced a light show to music using circuits and controller boards (C++)
  - Gained skills in Python and C++ for multiple fields, e.g., Game Development and Robotics
  - Interacted with leaders in the tech industry, computer science professors, and Robotics labs developers

## WORK EXPERIENCE (Paid)

- **Technology Intern with Communications Technology Management Center (CTM), City of Austin** June 2019- August 2019
  - Team Leader as we worked in groups to create a web-based interface
  - Utilized Java, JavaScript, and HTML/CSS to access various services provided by the City of Austin
  - Presented the project in a Shark Tank Presentation for local City of Austin officials
  - Interacted with various local technological specialists in the department
- **Software Code Instructor with Code Ninjas Austin** June 2021-August 2021
  - Developed curriculum for various programming language lessons for K-8 students
  - Instructed STEM-related skills as well as various programming languages including Java, JavaScript, Python, Lua, and Swift
  - Led classes to demonstrate the positive impact CS could have on the world and share the benefits of starting to code at a young age
  - Directed students on important coding practices in addition to working through complex problems in CS
  - Oversaw daily operations and allowed for the center to have a fun and safe environment

## RESEARCH PROJECTS

- **Research Assistant Under University Professor at UT Austin** May 2021-Present
  - Analyze effects of COVID-19 vaccination utilizing Uncertainty Quantification (UQ), Linear Algebra, Python
  - Over 1000 lines of COVID in Visual Studio Code
- **AI Research Program: AI & Genomics** April 2021-Present
  - Utilized computer vision and image classification tools to develop machine learning models to diagnose skin lesion images
  - Explored a variety of image manipulation techniques and convolutional neural networks to create an effective model
  - Working on (in-progress) packing it into an application with a user interface

## MOBILE APP DEVELOPMENT (*Free iOS App on Apple Store*)

- **ServiceSPOTTER App:** *Connecting Homeless and Low-income Communities with Services* June 2020- July 2021  
Web: [www.serviceSPOTTER.org](https://www.serviceSPOTTER.org) YouTube <https://youtu.be/EJgrAwPKOPA> App Store: <https://apps.apple.com/us/app/servicespotter/id1580907480>
  - Founder and Developer of App
  - 5 Star Rating and very positive reviews from Austin City Council, Users, and Community
  - Unique features in the App developed based on community survey conducted in Summer 2020.
    - Explore details and connect with service providers for food, clothing, shelter, and health care
    - Access directions using google maps from where you are
    - Interactive AI based Chat Box "Spotty" to assist the users to get answers to any questions about the services available by category
    - Ask the forum about any questions regarding any service
    - Volunteers to be able to submit requests to assist the service providers (critical shortage)
  - Shared with City's Council members and presented to City of Austin management and currently working as Volunteer with Austin City Homeless Division to promote and expand the app.
- **Spanish Honors Society App** August 2021
  - Created an app to connect members, share information about club meetings volunteer opportunities, and record service hours, and various other features
- **Key Club International App** August 2021
  - Created an app to connect members, share information about club meetings volunteer opportunities, and record service hours, and various other features

## TRAINER ON TECHNOLOGY COURSES

### • TechGirlz National Teen Advisory Board Member

July 2021

- Establish new curriculum, promote, and instruct on various technology lessons to young girls globally (including countries such as Canada, Qatar, and India)

### • STEM Girl Start Volunteer

July 2019

- Assisting in STEM experiments and workshops for girls in a hands on and informal environment

### Podcast Host of “Taking CONTROL” on Technological topics available on Spotify, Anchor, and other platforms

July 2019

- Educating the community on various technological topics such as encryption, software obfuscation, and other topics.

### TechBLOG: Writer of the Girlz National Teen Advisory Board Member

July 2021

- Educating the community on various technological topics such as encryption, software obfuscation, and other topics through a community blog (link: <https://arushisharma264.wixsite.com/techzette>)

## AWARDS AND RECOGNITIONS

### National

1. National Winner, National Center for Women in Technology (NCWIT): Honorable Mention - Contributions to Technology (2020)
2. National Gold Award from US President’s for exemplary Volunteer Service for American Red Cross (2020)
3. AP Scholar with Distinction from College Board -5 or more AP courses (2021)
4. National Scholarship Press Association Best of Show- News Story on COVID-19 Reporting (2021)

### State/Regional

1. 1st Place in Austin Regional Science Fair (2020)
2. Special Tyrex Award (2020)
3. Dell Center Healthy Living Health Innovation Award (2020)
4. Finalist Texas State Science Fair: Cancelled due to COVID (2020)
5. 5th Place, VEX Robotics Tower Takeover Austin Competition- Advanced to State (2020)
6. 2nd Place, State Qualifier Fundamentals of Web Design (2020)
7. 1st Place, Texas State Debate Public Forum JV Championship (2021)

### UIL/Others

1. Merit Award, Robotics STEM Maker Faire Austin (2019)
2. 1st Place, TFA Vista Ridge Debate Public Forum JV Competition (2020)
3. 4th Place, University Interscholastic League (UIL) Journalism Sweepstakes (2021)
4. Sweepstakes, University Interscholastic League (UIL) Orchestra (2019)

## EXTRACURRICULARS

### Founder and President- Bowie STEM & Engineering Club (BSEC)

2018-22

- Worked to close the gender gap in the tech courses at school
- Partnered with leaders in the tech industry to share their experiences
- Enhanced interest of the students in joining STEM
- Worked with UT Austin in getting Computer Science (CS) students to teach various CS courses to High School students

### Team Manager and Software Programmer- Bowie Robotics Club

2018-21

- Manage the overall documentation and oversee the progress of development of Robot
- Wrote & designed the code for multiple robots to compete in various tournaments (FIRST & VEX)
- Organized fundraisers and outreach events to increase awareness of the program in the community

### Secretary of Robotics Honor Society

2020-21

- Participate in STEM activities and help organize external events-give back to the community

### Editor in Chief of Bowie High School Newspaper “The Dispatch” (Top 25 School Newspapers in the US)

2019-22

- Manage, Design, and Edit the school paper collaborating with 15 Editors and 35 reporters (XX issues /Year)
- Writing editorial pieces to contribute to the publication and approving the publication's layout, design, style, and tone

### President of Key Club, National Organization

2018-22

- Led over 150 members and 6 fellow officers in regular meetings
- Coordinated local service projects to benefit various Austin communities
- Communicated with sponsors regarding financial aspects of the organization
- Oversaw volunteering programs and general club operations

### President of National Spanish Honor Society

2019-22

- Led over 180 members and 6 fellow officers in regular meetings
- Coordinated local service projects to benefit Hispanic communities in Austin
- Communicated with sponsors regarding financial aspects of the organization
- Oversaw volunteer opportunities and general club operations

### Captain of the Bowie High School Varsity Golf Team

2018-22

- Lead practices, Participate in various Varsity Golf Tournaments, organize Team bonding events

**Co-Vice President of Amnesty International Club**

2019-22

- Created a platform for youth where like-minded people come together to learn, mobilize, challenge, and voice their opinions on human rights issues

**Member of James Bowie HS Debate**

2019-22

- Participated and competed in various Debate tournaments including Public Form, Extempore, and Public Address debate events

**Member-High School Class Council**

2018-22

- Organize fundraisers, design T-shirts for class, etc.

**Member James Bowie High School Principal Panel**

2021-22

- Discuss School campus issues and brainstorm to find solutions to make the school campus better

**WORKSHOP/CONFERENCE**

- Apple Aspirations in Computing Summer 2021 Workshop
- ChickTech June PopUp by Microsoft Workshop Year

**VOLUNTEERSHIP**

2018-21

- American Red Cross Blood Drive Coordinator to organize 2 blood drives (collected over 130 blood units- 250 hours)
- TechGirlz National Advisory Board Member: Establish new curriculum, promote, and instruct STEM topics (70 hours)
- Girl Start Summer Camp Volunteer: Assisting in STEM experiments and workshops for younger girls (20 hours)
- First Methodist Church Homeless Breakfast Volunteer: Assist in food preparation & serve free hot breakfast to homeless individuals (190 hours)
- Keep Austin Beautiful Volunteer: Cleaned up local parks and picked trash from streets (45 hours)
- Robotics: STEM Robotics Maker Faire Austin (8 hours)
- Baldwin STEM Night-Robotics (8 hours)
- Key Club Service Projects (54 hours)
- Spanish Honor Society Service Projects (25 hours)
- Cultural Events at local temple Radha Madhav Dham (150 hours)