

Arihan Dixit

I am a Junior at Independence High School with a passion for Computer Science, sports, music, and DIY projects.

EXPERIENCE

Mobile App Development, iOS/Android — Google's Flutter

June 2020 - PRESENT

Utilizing the newly popularized Flutter programming language, developed by Google consisting primarily of the Dart language, in order to develop apps compatible on any mobile phone.

Machine Learning/AI, — Coursera

January 2021 - PRESENT

Taking courses such as *Learn SQL Basics for Data Science Specialization: UC Davis* and *Machine Learning: Stanford University - Andrew Ng*, in order to master data and AI/ML concepts used to model and solve business problems. Expected to be completed by the end of the 2021 academic year.

Prototyping/Designing

June 2015 - PRESENT

Using various materials including aluminum, steel, and wood, along with other components to create prototypes of various complex mechanisms, intricate gear trains, chassis designs, and more.

Java and Python Programming

June 2015 - PRESENT

Learning Java programming through school in 9th grade (Foundations CS) and 10th grade (AP Computer Science). Self taught Python and have gained an intermediate level proficiency in Python programming.

Chatbot Development, Google Assistant/Amazon Alexa

June 2017 - June 2019

Developed voice/chatbot applications for multiple platforms, mainly Google Assistant, through Google's platform DialogFlow, formerly Api.AI.

EDUCATION

Independence High School, Ashburn, VA — Current

August 2020 - Present

Notable courses Taken: Math Analysis, AP Computer Science, AP World History, Research Chemistry. GPA: 4.83/5.3

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SKILLS

Strong team leadership and planning skills

Skilled Public Speaker

Strong communication skills (verbal and written)

Ability to work independently as well as part of a team

Ability to learn quickly

Mobile App Developer (iOS and Android OS)

Chatbot Developer (Google DialogFlow/Amazon Alexa)

AWARDS

Outstanding Delegation: 2021 TJHSST Model United Nations Conference (TechMUN) - Represented Russia in the Asia Cooperation Dialogue
3rd Place: Step Up Loudoun Competition 2021 Project: Kounslr

Verbal Commendation: 2021 Langley High School Model United Nations Conference - Represented Colombia in the Disarmament and International Security Committee

Verbal Commendation: 2021 Academies of Loudoun Model United Nations Conference - Represented Hungary in the United Nations Human Rights Council

Thomas Jefferson High School for Science and Technology, Alexandria, VA — 9th Grade

August 2019 - June 2020

Notable courses taken: TJ Research Statistics, TJ Math 3, Foundations of Computer Science. GPA: 4.15/4.5

PROJECTS

Kounslr (Current) — Mobile App for iOS and Android

Currently developing a service to help HS students throughout the various aspects of their HS experience and College Application process. Mobile App developed on Google's Flutter. Will be presenting at the 2021 Step Up Youth Loudoun Competition.

Various Basic Mobile Apps (2021) — Google's Flutter

Developed mobile apps following the weekly lessons provided by the YouTube Channel "Think Outside the Valley":

- LoveCalculator: User enters two names and receives a percentage in return signifying the "compatibility" of the two names.
- DogQuotes: User can learn about any type of dog breed by scrolling through a list of breeds and selecting one to receive more information on the breed as well as a witty quote.

CitizenshipCoach (2019) — Chatbot: Google Home and Amazon Alexa

Help US immigrants study for and pass their Naturalization Exam. Developed chatbot using Google DialogFlow. Presented at the Step Up Loudoun Youth Competition 2019 and won Finalist as well as 3rd place.

PersonalTeach (2018) — Chatbot: Google Home and Amazon Alexa

Help VA students study and pass their annual state-wide Standards of Learning Tests. Developed chatbot using Google DialogFlow. Presented at the Step Up Loudoun Youth Competition 2018 and secured 4th place.

Verbal Commendation: 2021
AWARDS CONT.

Chantilly Model United Nations Conference - Represented Turkey in the United Nations Industrial Development Organization

3rd Place: 2020 Virginia VEX Robotics State Competition

Outstanding Delegate: 2020 Ivy League Model United Nations Conference - Represented Trinidad and Tobago in the Social, Humanitarian, and Cultural Committee

Honorable Delegate: 2020 William and Mary Model United Nations Conference Represented the Netherlands in the United Nations Environmental Agency

3rd Place: Step Up Loudoun Competition 2019 Project: CitizenshipCoach

Finalist: Step Up Loudoun Competition 2018 Project: PersonalTeach

3rd Place: 2017 Loudoun County Public Library's It's All Write Short Story Writing Contest Story: *The Case of the Flashlight on the Beach*

EXTRACURRICULAR ACTIVITIES

President of Independence High School's Class of 2023 — 2020 - 2021 Year

Campaigned and ran for President of my graduating class. Was elected and am currently acting as the class President. Position includes planning and managing fundraising events and school spirit projects, and keeping those in my class informed about what they need to know throughout the year.

Model United Nations (MUN) — 9th and 10th grade

Member of the Model United Nations Clubs at TJHSST and Independence HS. Attended 4 total conferences throughout MUN career (2 national and 2 local), and received awards in all four.

VEX Robotics Competition — 7th - 10th grade

Participant in VEX Robotics competition and Captain of private team. Lead builder and programmer on the team as well. Qualified for VA state competition all years of participation, US National competition all years, and Worlds International competition in 2020 season.

Prepared and Auditioned for VBODA District 16 All District Band — 6th, 7th, 8th, 10th grades

Accepted into the highly-selective All District Band in 7th, 8th, and 10th (current) grades.

Jazz Band — 9th and 10th grade

Member of the jazz ensembles at Independence HS and TJHSST.

10th Grade

Math Honors Society - Took part in tutoring opportunities which involved teaching other students about complex mathematics concepts including Algebra I, II, Geometry, and Precalculus.

Academic Team - One of the 4 starters on the Indy Academic Team (It's Academic). Current team record of 3-3.

1490 on the PSAT/NMSQT - Prepared for and completed the PSAT/NMSQT exam and scored a 1490/1520, including a perfect score on both mathematics sections.

AMC Math Club - Member of the AMC Math Club at Independence High School, and preparing to take the AMC 10 Test this February.

9th Grade

Investment Club - Learned about investing, Stock Market, Economics, and applied those skills in various real-life simulated situations which involved analyzing trends, creating presentations, and presenting studies conducted.

Machine Learning Club - Learned about various Machine Learning concepts as a member of the club. Learned how to create various basic ML models in Python and participated in competitions hosted on Kaggle. Wrote a lecture at the end of the year to present to the other members of the club.

Quizbowl Club - Participated in many *It's Academic* activities as a member of the club, which involved studying varying areas including literature, science, sports, and more.

Freshman Basketball Team - Member of freshman team. Practiced 6 days a week and played games 2 days a week.

-References upon request-