Arihan Varanasi

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PROFESSIONAL EXPERIENCE

Mumbaikars DFW - *Senior App Developer*   *2020*

Managed the designing and construction of an app for a local Mumbaikar organization using Xcode. Coordinated development of the app after presenting a successful and favored layout of the application to the organization. Communicated with team members and the chairman of the organization to coordinate responsibilities during development including the division of tasks such as adding business data, coupon data, and advertising information and services to the app. Allowed the organization to increase its reach and efficiency as members and clients were able to access the app to communicate and exchange services and payments.

Dallas TiE - Investmate - *App Founder and Designer*   *2021*

Ideated the Investmate platform to provide investment services with an easy-to-use platform and design for use by all age groups. Primarily targeted young investors and included a database of investment terms in order to educate young investors about important terms in stock market trading. Managed the design of the User interface of the Investmate platform and created base website for the company. Interviewed Hedge Fund Founder Nitin Sikkha of Cedar River Management LLC and Co-Founder Brandon Day of 360 Wealth Investment to collect information to validate idea as well as to improve app services and reach.

Comet (Internship) - *UX Designer and Application Tester*   *2022*

Worked in the Comet 4th Flight Test Program and launched the Comet platform early Summer 2022 to the public. Worked with other UX/UI designers to review design of the app and add improvements to make it more appealing and beneficial to high schoolers. Provided and collected feedback about Comet application and services to improve Comet features and provide more high school students with valuable college advice. Invited to communicate with Founder and allowed Comet to expand its services and impact on highschoolers through work and criticism.

LEADERSHIP EXPERIENCE

FLL Robotics - *Technical/Programming Manager*   *2017-2018*

Elected as programming manager and developed the code and functions of EV3 Mindstorms Robots. Assisted in the designing and construction of EV3 robots as well as the planning of topics needed to learn to improve bots and programs. Coordinated with other members to develop elements of the robot such as movement systems, grappling systems, sensory components, and features used to complete various tasks in the competition. Researched about Mindstorms components and code in order to improve Robot abilities and speed to complete tasks. Won Dallas regional competition for quick completion of game tasks.

Destination Imagination - *Project Manager*   *2018-2020*

Elected as a project manager for a Destination Imagination team in Coppell, Texas for two years and achieved first place in the Dallas regional competition. Assigned and coordinated tasks for team members which included the construction of props and equipment in both years. Ideated topic for competition performance and elements of it such as the plot and the addition of computer science topics namely cryptography in code and image source code. Managed the training of team members and preparation for the Instant Challenge in which a team must engineer a solution using given materials for a random challenge prompt. This consisted of the division of tasks and responsibilities of members such as programming, engineering, and performance roles.

FTC Robotics - *Team Co-Manager and Programming Manager*   *2020 - 2021*

Elected as team co-manager and served as programming manager to research and develop efficient programs to complete the competition challenges as quick as possible. Ideated, researched, and designed intake, launcher, and movement systems for the FTC robot in order to accurately collect and launch rings at targets in the competition. Engineered robot using Rev Robotics parts and motors found in kits. Programmed autonomous and driver-controller periods of the game competition using FTC OnBot Java. Ideated game strategy and different scenarios and solutions for randomly placed objects on the game field. Coordinated volunteer efforts with team members, community officials, and parents. Taught basics of Python to children in the local area through online zoom sessions with a structured curriculum and course materials. Organized a Food, Clothes, and Hygiene Drive in the local area and donated numerous products to the Dallas Metrocrest program for use by needy people during the pandemic. Manufactured reusable cloth masks using stitching machines and delivered masks directly to nurses in a local hospital and Vogel Alcove, an organization that cares for destitute children who experienced trauma and homelessness. Won regional competition for high point count in competition and presentation of robot construction, programming, and volunteering efforts.

TSA - Data Science and Analytics - *Team Lead*   *2021-2022*

Managed the collection of comprehensive Covid-19 data, including vaccine and variant data, from sources such as *Johns Hopkins University* and other reputable sources. Compared coronavirus data between developing and developed countries and focused on Brazil, the United Kingdom, and the USA due to their abundance of data. Used linear regression and Support Vector Models (SVMs) to analyze Covid statistics and forecast future Covid cases and outbreaks in various countries. Coordinated with other team members to continue to collect and supply machine learning models with larger datasets and better optimize models to increase accuracy. Used Matplotlib to chart Covid data, forecasts, and present findings at competition. Finalist for Dallas TSA regional competition for Data Science and Analytics for findings and work.

EDUCATION

Coppell High School - Coppell, TX   *2020-2024 (Class of 2024)*
- GPA - Unweighted: 4.00 - Weighted: 5.48
- ACT: 34
- National Honors Society (NHS)
- Gifted and Talented Program (GT)
- JV1 Tennis team - (Awarded Most Valuable Player)
- Member of Student Council, TSA, Coppell Solar Car Club, and Science Olympiad

Dallas College Dual Credit Program - Dallas, TX   *2021-2022*
- Principles of Macroeconomics (ECON-2301-83642)
- College Algebra (MATH-1314-63645)
- Plane Trigonometry (MATH-1316-73740)

SKILLS/INTERESTS/MISCELLANEOUS

- Earned Java MTA Certification in 2021 from Microsoft
- Experienced in Python and major Python Libraries including Numpy, Pandas, SciKit Learn, and OpenCV
- Experienced in web development frameworks such as React and Flask
- Proficient in Tensorflow and basic machine learning models such as linear and logistic regression models, CNNs, Neural Networks, and NLP