# ARNAV THAREJA

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## EXPERIENCE

**Mathnasium** May 2019 – June 2020
*Instructor* *Renton, WA*

Taught students grades K-12 topics in math ranging from basic addition and subtraction to calculus
Helped develop an intuitive understanding of math concepts in students

**FIRST Tech Challenge Team 8693: The Scarabs** August 2016 – June 2020
*Project Manager* *Renton, WA*

Led over 20 team members to successful completion of a FIRST Tech Challenge (FTC) competition robot
Guided and supported technical creation of robots and accompanying software
Implemented a TensorFlow-based object detection model to be integrated with robot pathfinding algorithms
Planned public events to introduce elementary and middle schoolers in Renton to STEM
Increased team efficiency and reduced wasted time in the development process

**The Museum of Flight** September 2016 – September 2018
*Junior Docent* *Seattle, WA*

Gave presentations about aviation history to Museum of Flight visitors as the Museum's first Junior Docent
Made interactive exhibits designed to teach young kids about topics in aviation

## EDUCATION

**University of Washington** Expected Graduation: June 2024
*Bachelor of Science, Computer Science* *Seattle, WA*

**GPA:** N/A (first-quarter freshman)
**Selected Coursework:** Computer Programming I, Calculus I and II
**Projected Coursework:** Computer Programming II, Foundations of Computing I and II, Data Structures and Parallelism, Calculus III, Linear Algebra

**Hazen Senior High School** August 2016 – June 2020
*High School Diploma* *Renton, WA*

**GPA:** 4.0 **Rank:** 1/383
**SAT:** 1570 **SAT Math II:** 800 **SAT Physics:** 800 **AMC 12:** 85.5
**Activities:** Robotics Club (Project Manager), National Honor Society, Table Tennis Club (Co-Founder, Vice President)
**Awards:** National Merit Finalist, National AP Scholar, FTC Dean's List Semifinalist

## PROJECTS

**Popular Music Analysis** — *Personal Project* February 2020 – August 2020

Analyzed features in popular music using Python and searched for patterns in the features
Used the Spotify API to get data about popular music and music features from Spotify
Implemented a Machine Learning model using Scikit-Learn to predict a song's popularity given its features

**Yearbook 2020** — *Personal Project* June 2020 – July 2020

Developed a web application for students and graduates to sign yearbooks virtually
Created using HTML, CSS, JavaScript, and Google Firebase for user authentication, cloud storage, and NoSQL database

**Personal Website** — *Personal Project* July 2020 – August 2020

Created a responsive, user-focused website design using HTML, SCSS, and JavaScript

## SKILLS

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|---|---|
| **Software Languages** | Python, Java, HTML, CSS, SCSS, JavaScript |
| **Tools** | Jupyter Notebook, Eclipse, Visual Studio Code, Git, GitHub, Microsoft Office |
| **Languages** | English, German |