

# ARNAV THAREJA

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## EXPERIENCE

### Mathnasium

Instructor

May 2019 – June 2020

Renton, WA

- Taught students grades K-12 topics in math up to calculus
- Helped develop an intuitive understanding of math concepts in students
- Contributed to smooth operation of the center and interacted with parents and prospective customers

### FIRST Tech Challenge Team 8693: The Scarabs

Project Manager

August 2016 – June 2020

Renton, WA

- Led and mentored a team of over 20 members to successful completion of a competition robot
- Guided 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 optimized the development process

### The Museum of Flight

Junior Docent

September 2016 – December 2018

Seattle, WA

- Gave presentations on 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

### Boy Scouts of America Troop 499

Eagle Scout & Assistant Senior Patrol Leader

June 2015 – June 2020

Newcastle, WA

- Led the planning and successful execution of a large-scale kitchen remodel project at Renton Lions Youth Camp
- Planned and led troop meetings and volunteered in various community projects

## EDUCATION

University of Washington | Seattle, WA

Bachelor of Science, Computer Science

Expected Graduation: June 2024

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, Matrix Algebra with Applications

Hazen Senior High School | Renton, WA

August 2016 – June 2020

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, Oliver M. Hazen Award

## PROJECTS

Popular Music Analysis | Personal Project – In Progress

[github.com/arnavthareja/music-analysis](https://github.com/arnavthareja/music-analysis)

- Analyzed features in popular music using Python and searched for patterns
- Used the Spotify API to get data about popular music and features from Spotify

Yearbook 2020 | Personal Project

[yearbook-hhs.web.app](#)

- Designed and 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

Table Tennis Sign-In | Personal Project

- Created a Java application to enable a quick and paperless sign-in process for Hazen High School's Table Tennis Club
- Utilized the Google Sheets API to upload sign-in records to the club's Google Sheet for membership tracking and analytics
- Used Swing to create a Graphical User Interface for a smooth user experience

## SKILLS

Languages

Java, Python, JavaScript, HTML, CSS, SCSS

Tools

Jupyter Notebook, Eclipse, Visual Studio Code, Git, GitHub, Microsoft Office

Other Skills

Communication, Leadership, Project Management