

# ARNAV THAREJA

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## EDUCATION

**University of Washington** | Seattle, WA  
*Bachelor of Science, Computer Science*

Expected Graduation: June 2024

**GPA:** N/A (first-quarter freshman)

**Completed Coursework:** Computer Programming I, Calculus I and II

**Planned Coursework:** Computer Programming II, Foundations of Computing I and II, Data Structures and Parallelism, Calculus III, Matrix Algebra with Applications

**Activities:** Husky Robotics, Association of Computing Machinery (ACM)

**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, Eagle Scout

## EXPERIENCE

**Husky Robotics**  
*Software Engineer*

October 2020 – Present  
Seattle, WA

- Created robot pathfinding and autonomous navigation algorithms for a prototype Mars rover using C++

**Mathnasium**  
*Instructor*

May 2019 – June 2020  
Renton, WA

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

**FIRST Tech Challenge Team 8693: The Scarabs**  
*Project Manager*

September 2016 – June 2020  
Renton, WA

- Led and mentored a team of over 20 members to successful completion of a competition robot and accompanying software
- Implemented a TensorFlow-based object detection model in Java to be integrated with robot navigation 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

## PROJECTS

**Angles** | DubHacks 2020 – Newsprint Track Finalist (Top 3 out of 70+ Projects)

[github.com/abhaybd/angles](https://github.com/abhaybd/angles)

- Developed a Chrome Extension that recommends news articles of opposite bias when a news website is visited
- Created using JavaScript, HTML, CSS, and Google Cloud Natural Language (NLP) to extract keywords from news articles
- Selected as a finalist in the Newsprint track and recognized as one of the top 3 projects out of over 70 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](https://yearbook-hhs.web.app)

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

**Table Tennis Sign-In** | Personal Project

- Built 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

## SKILLS

**Languages**

Java, Python, C++, JavaScript, HTML, CSS

**Tools**

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

**Other Skills**

Communication, Leadership, Project Management