

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, The Hardware/Software Interface, Calculus III, Matrix Algebra with Applications

Activities: Husky Robotics, Algorithmic Trading Club, Association for Computing Machinery (ACM), Cube Club

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

- 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

- 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 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