# AYUSH NAG

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## EDUCATION

**University of Washington (UW), Seattle WA**

*B.S. Computer Science*                                                                 *expected graduation June 2024*

- GPA: 3.8/4.0
- Honors and Awards: Deans List for 5 quarters, CSE Honors Program, WA NASA Space Grant
- Relevant coursework: Data Structures and Parallelism, Data Management, Software Design
- Planned coursework: Hardware/Software Interface, Systems Programming, Computer Vision

## SKILLS

- Languages: Proficient in Java, Python, SQL, C++. Familiar with React/JS
- Technologies: Jupyter, LaTeX, Markdown, GitHub, GIS, Fusion 360
- Agile project management

## EXPERIENCE AND PROJECTS

**Washington NASA Space Grant**                                                              Seattle, WA

*Research Software Engineer*                                                          *March 2022 – Present*

- Awarded NASA Space Grant to build a global database of Southern Ocean phytoplankton species composition to combat climate change
- Importing, cleaning, and merging ~15 datasets using Python, SQLite, and web API's
- Publishing Python Jupyter notebook for geospatial data visualization and supporting oceanography/earth data science use cases
- Predicting phytoplankton species composition using unsupervised machine learning to determine species relationship with biological production and air-sea $CO_2$ flux

**UW Youth and Teen Programs**                                                              Bellevue, WA

*Java Assistant Instructor*                                                          *July 2022 – August 2022*

- Instructing ~90 high school students the fundamentals of Java/object-oriented programming

**COVID Exposure Tracking**                                                              Seattle, WA

*Software Engineer/Participant*                                                          *October 2021*

- Implemented interactive heat map of cases using TypeScript and ArcGIS maps to track COVID-19 spread precisely in UW buildings
- Reached semi-final round of the hackathon

**PrismNotes** (www.prismnotes.com)                                                              Seattle, WA

*Founder/Developer*                                                          *January 2019 – June 2021*

- Built PrismNotes app to reduce test anxiety and combat mental health issues for students by providing a notes organization tool to create digital notebooks from handwritten notes.
- Developed in Android Studio using Java, Microsoft's Computer Vision API, and JSON data
- Built advanced image search using OpenCV pre-processing and Tesseract OCR