

# Ayesha Mahmood

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## EDUCATION

### University of Washington

*Bachelor of Science in Computer Science, Minor in Data Science*

Bothell, WA

Sep. 2022 – June 2025

### Clubs

*BWiSE (Bothell Women in Science and Engineering) , WiCyS (Women in Cyber Security Bothell)*

## EXPERIENCE

### UWB Hacks AI Participant

*University of Washington*

May 2024

Bothell, WA

- Innovated AI solution project for high schoolers, providing personalized guidance towards college.
- Conducted surveys to tailor solution to student needs in college application process.
- Developed website using HTML and CSS featuring Figma prototype in a 48 hour period.
- Achieved a **top 5 finalist** position at UWB Hacks AI among 350+ participants.

### Online Tutoring Program Manager (CS & Math)

*Remote Tutoring*

Jan 2022– Present

*Zoom*

- Managed remote tutoring catered towards economically disadvantaged students in Computer Science and Math.
- Leveraged Zoom to provide personalized tutoring sessions, supporting student learning and engagement.
- Directed team efforts to ensure effective communication and educational outcomes in a remote setting.
- Achieved an outstanding **90% student satisfaction rate** through ongoing improvements.

## PROJECTS

### Weather App | *API, Java*

Dec 2023

- \* Developed a Java-based weather application providing real-time updates.
- \* Seamlessly integrated APIs for efficient data retrieval, optimizing performance and user satisfaction.
- \* Demonstrated proficiency in Java programming and API integration, contributing to a robust software solution.

### Movie Rental Store Inventory Tracking System | *C++, Docker, Git, Linux*

June 2023

- \* Collaborated in a 2-member team to build an automated inventory tracker using Objected Oriented Principles.
- \* Led front-end design and debugging efforts, demonstrating proficiency in software development.
- \* Authored architectural report, showcasing expertise in technical writing and documentation.
- \* Implemented rigorous testing on Docker using comprehensive test cases, ensuring performance optimization.

### Banking System | *Python, Docker, Git, Linux*

Jan 2023

- \* Designed a banking system using queues and binary search trees for optimal efficiency.
- \* Achieved a **perfect score of 10/10** across rigorous test cases, showcasing robust implementation.
- \* Demonstrated mastery of data structures and practical application in the banking domain, with thorough testing on the Linux platform.

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Next.js, Flask,

**Operating Systems:** Android, Windows, iOS, Linux

**Developer Tools:** Git, Docker, Azure, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Data Analysis:** SPSS, Power BI

## AWARDS

**NSLS Nomination** (February 2024)

**Dean's List** (Autumn 2022, Spring 2023, Fall 2024, and Winter 2024)

**Avanade STEM Scholar** (Sep 2022)