

JIANING (NEIL) ZHANG

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EDUCATION

University of Washington

Junior Undergraduate

Computer Science in Paul G. Allen School

Dean's List

September 2022 - June 2026

Overall GPA: 3.95/4

Major GPA: 3.90/4

December 2022 - Present

TECHNICAL STRENGTHS

Programming Languages

Java, Python, TypeScript, C, C++, Shell, R, MATLAB

Databases/Tools

DynamoDB, Azure MySQL, Git, Ali Cloud Platform

Frameworks

React, React Native, Node.js, PyTorch, NumPy

EXPERIENCE

Shanghai AI laboratory

Research Assistant

July 2023 - September 2023

- Pioneered research in 3 Multiple Instance Learning (MIL) methods, elevating the field's standards by focusing on CLAM-SB and WSI-FT algorithms, resulting in consistently superior predictive accuracy with AUC at 95% to 98%
- Demonstrated exceptional proficiency in designing and executing meticulously structured experiments, achieving unprecedented results, and concluding a high-quality technical report
- Collaborated seamlessly with interdisciplinary teams, fostering innovation and cross-pollination of expertise, while remaining committed to ongoing professional development to maintain a leadership position in the field

Husky Satellite Lab

Software Developer

September 2023 - April 2024

- Developed and implemented algorithms for the StarTracker system, enhancing the accuracy of satellite orientation.
- Collaborated with a 5 diverse teams of engineers and scientists to optimize the Machine Learning model, improving the quality of the generated star maps just utilizing 15 parameters.
- Conducted comprehensive research on the StarND algorithm and 3 other related algorithms to optimize the satellite locating process for our satellite, enhancing accuracy and memory efficiency.

PROJECTS

CIRCLE official app

June 2023 - Present

- Spearheaded the development of the official UW CIRCLE application, leveraging cross-platform capabilities given the result of user research of over 200 students by utilizing React Native, React, and JavaScript to deliver a seamless user experience on both Android and Apple platforms
- A self-driven pursuit of knowledge and software development skills allowed for hands-on experience in application development, showcasing a commitment to continuous learning and innovation in the field

RELEVANT COURSES

Machine Learning & Deep Learning

Applied Mathematics on Linear Algebra

Foundations of Computing I II

Software Design & Implementation

System Programming

Computer Programming I II III

Software Hardware interaction

Calculus & Linear Algebra