Ai Sun

asun2@seattleu.edu | linkedin.com/in/oisun

Objective

Graduating Master's student in Computer Science with two years of prior industry experience in software development, seeking a challenging role in software engineering.

Skills

Languages: Python, Java, Swift, Objective-C, C++, C#, JavaScript, Dart
Technologies: Spring Boot, Firebase, Redis, PostgreSQL, MySQL, TimescaleDB, Flutter, SwiftUI, CoreML, React Native
Tools: Git, XCode, JUnit, Mockito, XCTest, Figma, Power BI, Huawei Cloud, CodeArts Pipeline

Education

Seattle University – Master of Science, Computer Science   Expected 2026
Seattle, WA
Beijing University of Technology – Bachelor of Engineering, Software Engineering   Graduated 2021
Beijing, China

Experience

Software Development Engineer, Advanced MassTech (Beijing) Company – *Beijing, China*   2022 – 2023

- Improved the petabyte-scale seismic data platform on Huawei Cloud serving 10,000+ daily users by implementing a Redis caching strategy that accelerated API response times by 100x, enabling real-time historical earthquake analysis with TimescaleDB and Power BI visualizations across 50+ years of data.
- Designed and developed 3 cloud-based distributed microservices for historical data querying, location-based time-series analysis, and data export, increasing daily active users by 25% within 4 months.
- Raised unit test coverage to 95% across 5 microservices using JUnit and Mockito, reducing database bugs by 80% and improving platform reliability.
- Established CI/CD workflows using Git version control and CodeArts Pipeline automation, enabling automated testing and deployment across 5 microservices.

Software Development Engineer, Jineng Mao Beijing – *Beijing, China*   2021 – 2022

- Led a cross-functional team of 5 developers at an 80-person startup to deliver a Swift-based iOS remote work app with MySQL database that achieved 5,000 monthly downloads.
- Developed a complete iOS application as the sole mobile engineer in Swift, building CoreML-powered facial recognition authentication, an AVFoundation camera system with photo management and geolocation watermarking, and Firebase-backed real-time messaging and community features.
- Drove cross-functional alignment with the CTO and product manager to define application requirements and a delivery roadmap with Figma UI mocks, shipping a production-ready iOS application within a 1-year timeline.
- Wrote performance tests using XCTest to validate UI response times and optimize resumable upload/download functionality with URLSession, ensuring app responsiveness under varying network conditions.

Publications

AI Tools for K-12 Educators: A Professional Development Perspective – Xin Zhao, Ai Sun   Expected Nov 2025

Campus Experience

Teaching Assistant, Seattle University – *Seattle, WA*   2024 – Present

- Instructed 250+ students in the Java Fundamentals boot camp and graduate-level Distributed Systems courses.

Graduate Student Council Officer, Graduate Student Council, Seattle University – *Seattle, WA*   2024 – 2025

- As Community Events Coordinator, organized 4 annual campus-wide events for 200+ graduate students, coordinating logistics and stakeholder communication across the student council, faculty, and administration.

Community Ambassador, MOSAIC Center, Seattle University – *Seattle, WA*   2023 – 2024

- Supported 500+ students at the MOSAIC Center Graduate Student Lounge, connecting underserved student populations with campus and off-campus resources; planned and hosted 8 quarterly events.