

Yingfan Chen

☎ (206) 665 9199 • ✉ yingfc@cs.uw.edu • in yingfc • 🌐 yingfc

Education

University of Washington

Seattle, WA

B.S. in Computer Science, GPA: 3.91/4.00

September 2019 – December 2022

Related Coursework: Distributed Systems, Artificial Intelligence, Advanced Algorithms, Databases, Systems Programming, Hardware/Software Interface, Machine Learning, Data Structures and Parallelism, Software Design and Implementation, Web Programming, Discrete Math, Java I, Java II, System and Software Tools.

Work Experience

Tesla

Shanghai, China

Data Engineer Intern - Big Data/BI Team

July 2021 - Sept 2021

- Data Visualization: Used Dash and Echarts frameworks in making real-time production line dashboards, including backend data querying and automatic deployment. Shortened the onsite feedback cycle by 50%.
- Data Warehousing: Setup and deployed high-availability ClickHouse cluster using Zookeeper on Linux servers. Conducted Kafka injection into ClickHouse for stream-data processing.
- Dev Environment: Organized analytical environment based on Docker and AWS, and standardized project python dependencies.
- Data Migration: Integrated data lake and worked in multi-platform data migration for better query efficiency.

UW Sensors, Energy, and Automation Laboratory (SEAL)

Seattle, WA

Software Developer

March 2021 - May 2021

- Code environment setup: Set up Flutter development environment for project skeleton for different teams. Offered tutorial videos for Flutter development, including basic syntax and app interactivity.
- Project DevOps setup: Built CI/CD pipelines for project development and deployment, shortened feedback loop cycle period by 60%.

Momenta.ai

Suzhou, China

Software Engineer Intern - High-Definition Map Data Service Team

June 2020 - Oct 2020

- HD Map Data compiler: Worked on a High-Definition map data pipeline with functional programming, processing map data from raw reads to organized data via topology reorganization and semantic computation.
- Map Data compilation: Proposed topological filtering method to cluster map data via features, enabled visual debugging and reduced the dependency on upstream data accuracy.
- DevOps Workflow Optimization: Setup and maintained the Azure DevOps CI/CD pipeline for feature development, and created the Staging-Production pipeline triggers to enable auto-deployment on Kubernetes.

Projects

Campus Path Finding Tool

Jan 2021 – March 2021

- Fullstack UW campus path planning/finding tool with a customized user interface

ClickHouse Cluster

July 2021

- Distributed database management system that enables high-availability and high-efficiency.

Skills

- **Programming Languages:** Proficient in Java, Scala, Python, SQL, JavaScript, HTML/CSS; Familiar with C/C++; Previously used R, Matlab.
- **Software & Tools:** Atlassian (Bitbucket, Jira, Confluence), Microsoft (Azure DevOps, Visual Studio), Gradle, Git, Docker, ClickHouse, Zookeeper, IntelliJ IDEA, PyCharm, DataGrip.

Accomplishments

- **Tesla First Hackathon - Best Innovation Prize** August 2021
- **Euclid Mathematics Contest at University of Waterloo - World Top 10%** May 2019
- **University of Washington Dean's List - Annual Dean's List** 2019-2020, 2020-2021