

# Xin Wen

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## OBJECTIVE

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Seeking a summer internship in the software engineering field

## EDUCATION

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### Northwestern University

December 2021

*Master of Science in Computer Science*

### University of Illinois at Urbana-Champaign

May 2019

*Bachelor of Science in Computer Science*

Cumulative GPA: 3.97/4.00

- Minor in Mathematics, Dean's List: Fall 2015 to Spring 2019

## WORK EXPERIENCE

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### Wayfair LLC

Boston, Massachusetts

*Software Engineer, Content Service team*

August 2019 – August 2020

- Designed and implemented a text management Java API that interacts with external CMS to store and fetch text for different locales. The API would help the marketing team to update texts on website without engineering efforts
- Developed text localization webhooks and Kafka consumers that trigger translation request API automatically once the text is updated in the external CMS, and store the translated text when the translation process is completed

### Trustwave Holdings

Chicago, Illinois

*Software Engineer Intern*

June 2019 – August 2019

- Analyzed and resolved the accessibility issues on the PCI projects website based on Americans with Disabilities Act
- Implemented a date filter for the data feed error alert system to reduce false alarm

*Software Engineer Intern*

August 2018 – December 2018

- Migrated PCI Data Feed frontend from Polymer Dart to Angular Dart, and perform manual QA testing
- Optimized data retrieval functions to make it easier for maintaining and reusing in the future

### DiDi Chuxing Technology Co.

Beijing, China

*Algorithm Development Intern, Smart Traveling team*

June 2018 – August 2018

- Revised the popular area mining algorithm for ride-sharing based on the concept of HDBSCAN and Shapley value
- Designed and implemented the second passenger cancellation rate model for ride-sharing using linear regression

## PROJECTS

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### Dimension Update Tool

August 2019

- Built an internal tool with React and PHP for warehouse employees to view and update shipping box dimensions
- Designed the API and database tables to record dimension update history, and developed UI to display the data

### Pet Mania

Spring 2018

- Built a photo-sharing mobile application for pet owners with React Native framework and Node.js backend
- Setup remote servers and designed MySQL database on Firebase and cPanel to store user and post data

### Scene Completion with Large-scale Image Dataset

Fall 2017

- Used GIST descriptor to calculate the L1 distance and SSD between the input image and image candidates
- Applied Graph Cut and Poisson Blending to fill missing part of input image with best-matched image from the list

### Virtual Reality Game

Spring 2017

- Created a multi-stage VR game, controlled by scripts, with different endings based on players' choices
- Utilized Dialogue System and Animation to present character actions and conversations to enhance VR experience

## SKILLS

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**Programming:** Python, Java, Kafka, Docker/Kubernetes, C/C++, HTML/CSS/JavaScript, React, SQL, PHP, Unity 3D