

# Peilun Chen

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## EDUCATION

<b>University of Washington, Seattle, WA</b>	09/2018-06/2022
Bachelor of Science in Mathematics	
GPA: 3.73/4.0	
Honors & Awards:	
Certificate of Higher Scholarship for 2019-2020 Annual Dean's List, University of Washington	03/2021
Dean's List, University of Washington	Autumn 2018, Winter 2019, Autumn 2019, Winter 2020, Spring 2020, Autumn 2020

## PROFESSIONAL EXPERIENCE

<b>UW Sensors, Energy and Automation Laboratory (SEAL), Seattle, WA</b>	02/2021-Present
<i>Sudoku AI/Core Member</i>	
Wrote Google script (Javascript) to maintain SEAL lab to control the database	
Transformed and cross validated SEAL training program 3.0	
Implemented Kanban (quest board) slack auto notification for new task or stale task states	
Implemented slack notification bot for SEAL group channels	
<b>The Ohzone Inc., Sunnyvale, CA</b>	06/2021-09/2021
<i>Data science Intern (Remote Internship)</i>	
Improved algorithm of rigid and nonrigid transformation registration to determine point cloud transformation matrix	
Used machine learning algorithms to cluster and simplify large point clouds	
Employed Meshlab to visualization and analyzed the output point cloud	

## ACADEMIC PROJECTS

<b>COVID-19 Impact Report in the U.S., Seattle, WA</b>	05/2020-06/2020
<i>Supervisor: Thomas Winegarden</i>	
Applied R and shiny app to analyze and interpret meaningful real world data	
Collaborated through GitHub and completed the report at <a href="https://parrenc.shinyapps.io/final-project-RobertZheng050/">https://parrenc.shinyapps.io/final-project-RobertZheng050/</a>	
<b>Husky Map Server, Seattle, WA</b>	10/2019-11/2019
<i>Supervisor: Kevin Lin</i>	
Implemented A* algorithm to construct location search function to find the shortest path	
Merged graphs into the map and pivoted each point	
<b>Machine learning practice with Kaggle, Seattle, WA</b>	04/2021-05/2021
<i>Supervisor: Hunter Schafer</i>	
Implemented decision tree and random forest algorithm to classify education data	
Created visualization to analyze classification results	
Wrote a report to analyze model feature, improvement and ethical implication	
<b>Appointment Reservation System, Seattle, WA</b>	10/2021-11/2021
<i>Supervisor: Ryan Maas</i>	
Designed a database to store patient and vaccine info on Azure server	
Connected the database with local command line interface	

## ACTIVITIES

<b>UW C21@Microsoft Externship, Seattle, WA</b>	01/2021-03/2021
Met with Microsoft externship mentors to prepare for the transition from college student to professional career	
Networked with senior data analysts and software engineers and learned from their professional experience	

## SKILLS

Language: Mandarin (native) & English (proficient)  
Computer: Python, Java, SQL, R, Matlab, Javascript, HTML, Figma Prototyping, Microsoft Office Suite, Blender, Meshlab, etc.