WEI-CHEIH (WINSTON), SUN

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EDUCATION

University of Washington – Seattle, WA   Expected Graduation: June 2023
● M.S. Electrical and Computer Engineering
● **Planned Coursework:** Probability and Statistics, Operating Systems (Planned), Hardware/software Interface (Planned), Introduction to Database Systems

National Taiwan University (NTU) – Taipei, Taiwan   Graduation: February 2020
● B.S. Mechanical Engineering
● **Relevant Coursework:** Data Structure and Algorithm, Introduction to Artificial Intelligence and Machine Learning, Computer Programming Language, Using R for Data Analysis
Additional Education Coursework: Object-Oriented Programming, Linear Algebra, Discrete Mathematics

SKILLS

● **Programming** (by familiarity)**:** python (most familiar), C, C++, SQL, MATLAB, C#
● **Tools:** Git, Bash, SolidWorks, Creo, LabView, MasterCAM   ● **Linguistic:** Chinese(native), English(fluent), Japanese(basic)

SELECTED PROGRAMMING EXPERIENCE

T-Mobile Home Internet Project, @University of Washington   January 2022 – June 2022
● Implemented 3+ fundamental concepts of machine learning through the Capstone Project (Python)
● Learned concepts of 4+ data models to optimize and differentiate different machine learning problems
● Tested and optimized common methods mapping from raw data to data prediction with 70% accuracy

GloVe Programming Project, @University of Washington   September 2021 – December 2021
● Implemented 3+ functions that could analyze the similarity of 50-dimensional pre-trained word data with the use of Pandas library (Python)
● Integrated the concept of the Cosine Similarity algorithm to find analogies and puzzle riddles of words
● Communicated with 5+ people to discuss of the appropriate way to optimize the algorithm

Gas Powered Automobile Project, @NTU   February 2018 – June 2018
● Programmed Arduino board controlling the 5 sensing sensors and 2 steering motors of the vehicle (C language)
● Designed an automobile which follows black duct tape in given 4 different routes of different situations
● Analyzed Wind Field produced by the propeller, and improved the thrust by 5%

OTHER EXPERIENCE

Intern, Advanced Medical Device Laboratory @NTU   September 2017 – June 2018
● Pioneered a prototype device for the Automation of Vascular Interventional Surgery
● Manufactured 50 pieces of 3D printing and laser cutting components to construct the alignment device and cardiac catheterization feeding machine (SolidWorks, Creo)
● Optimized experiments on force feedback system on Arduino (C language), minimizing the delay by 12%

Vice President, Balloon Design Club @NTU   August 2018 – June 2019
● Led a student organization of 20 people whose goal is to encourage leadership through serving others
● Achieved Best Booth Award in NTU school anniversaries & NTU Azalea Festival
● Focused on visualization artwork and growing the club from 20 members to 40 members over the semester, offering a platform for everyone to not only demonstrate skills, but make friends and find community