William Dong

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EDUCATION

Northwestern University   **Evanston, IL**
McCormick School of Engineering | Master of Science in Artificial Intelligence   *December 2020*
- **GPA:** 4.0/4.0

Arizona State University   **Tempe, AZ**
W.P. Carey School of Business | Bachelor of Science in Economics   *May 2019*
Barrett, the Honors College | Bachelor of Science in Mathematics   *cum laude*
- **Thesis:** *An Analysis on the Impact of the Recession on Working Hours in European Countries*
- **Study Abroad:** University of Zurich (*Fall 2018*)   **Zurich, Switzerland**

PROFESSIONAL EXPERIENCE

Neeka Health Intelligence   **Los Angeles, CA**
Data Science Summer Associate (Remote) | Econometrics   *June 2020 – September 2020*
- Developed and deployed a regression optimization algorithm and analytics tool that enabled team members to identify and report on causal key drivers underlying hospital financial performance
- Created an interactive dashboard to visualize and benchmark hospital performance at both the individual and macro group level to help drive the company narrative during pitches to large healthcare corporation executives
- Implemented clustering algorithms to create user defined peer groups among hospitals which allowed for a more granular analysis into hospital financial performance. This analysis was pitched to C-suite executives at a $45B healthcare operator and captured the interest of the head of data science, leading to follow up conversations

Deloitte Consulting   **San Francisco, CA**
Summer Associate (Remote) | Strategy and Analytics, Applied AI   *July 2020*
- Shortened virtual experience due to Covid-19 which consisted of networking events to develop connections with senior practitioners at the firm along with seminar panels to provide insight into their current projects
- Networked with data scientists in the firm and helped complete an NLP topic modeling exercise to help classify text within government consumer complaint data, which was presented during a client call at the end of the internship

New York Independent System Operator   **Rensselaer, NY**
Intern | Energy Market Design   *May 2018 – August 2018*
- Researched and reported market design considerations to improve interchange scheduling efficiency between New York and Hydro-Quebec which helped spark conversations for management across both utilities
- Developed a modeling tool to simulate and predict the price volatility implications and total consumer impacts for implementing energy storage resources across 14 load zones throughout New York
- Examined the current state of the energy industry and performed financial analysis on potential investments with a $20M budget to pitch to senior management

EXTRACIRRICULAR ACTIVITIES

Northwestern University   **Chicago, IL**
Teaching Assistant | Machine Learning (EECS-349)   *September 2020 - Present*
- Responsible for grading 10 assignments and holding office hours for 105 students during the 2020 fall quarter
- Make weekly contributions to assignment repositories through regularly updating and refactoring test scripts to reduce confusion for students while working towards a smooth learning experience

Cook County Juvenile Temporary Detention Center (JTDC)   **Chicago, IL**
Northwestern AMPED Student Mentor   *September 2019 - June 2020*
- Mentored a group of 12 residents in music production with the goal of creating full length compositions to share with their families at the end of the program

Hope Chinese School   **Chandler, AZ**
10th Grade Math Teacher   *August 2016 – May 2019*
- Created and taught a math curriculum to a class of 17 high school students every Saturday

SKILLS AND AWARDS

Technical *(In Order of Proficiency)***:** Python, Java, HTML, CSS, C#, SQL, JavaScript, LaTeX, R, C++, C, MATLAB, Stata, Mathematica
Libraries/Technologies: Pandas, NumPy, PySpark, PyTorch, TensorFlow, Keras, Scikit-Learn, Plotly Dash, Tableau
Languages: Mandarin (*Fluent*)
Awards: W.P. Carey Dean's List, New American University Scholar President's Award, Gilbert Foundation Scholar
Hobbies: Electronic Music Production, Options Trading, Video Game Development, Basketball, Distance Running