

# Wenxuan (Oliver) Gu

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## EDUCATION

### DePaul University

M.S. in Data Science - Computational Method GPA:3.85/4.00

Chicago, IL

Sept 2021 - Mar 2023

### University of California, Davis

B.S. in Economics - Econometrics & Quantitative Analysis GPA:3.20/4.00

Davis, CA

Sept 2017 - Jun 2021

## ADVANCED SKILLS

**Analytical:** data mining, data visualization, multivariate predictive modeling, machine learning, database management

**Technical:** STATA, MATLAB, SAS, R, Python, Tableau, SQL, JavaScript, HTML, LISA, VMware, Tidal, ServiceNow

## PROFESSIONAL EXPERIENCE

### Mizuho Securities USA | Mizuho Americas

Chicago, IL

#### Technical Business Analyst Intern

May 2022 - Aug 2022

- Conducted trade information manipulation and formatting on daily give-in trade files through **LISA Clearing Engine (AS4000)** and diagnosed 32 types of failed trades from 760,000 records by using **SQL management tool**
- Constructed over 700 **Notification Genius** seed job pages from **Tidal to FUT Confluence** and automated over 1200 Futures generic job pages in Business Confluence by applying **UiPath which reduced 48% of manual effort**
- Performed in over-night **GMI automation process** with 3 support engineers by conducting 326 **ServiceNow troubleshoot** for GMI jobs and prioritizing 682 **AutoPay daily jobs** to reduce the traffic of end-of-day process
- Consolidated 148 on-going SSIS FUT projects from Tidal Share and **FUT GitLab** to Futures Business Confluence
- Built up 28 **VMware virtual machines and VDI** through **vSphere and Horizon Client** for Capstone Partner
- Participated in Chicago *data center migration project* by examining 28% out-going physical devices and validating 36% ready-to-transfer server groups based on **FUT iDash and ServiceNow** record
- Accomplished the *quantitative cohort project* and structured a 60-slide project presentation with education, analysis and recommendation sections for CIO John Buchanan and executive officers to use for **e-waste decision making**

### Dr "Fran" Li (James W. McConnell Professor) EECS Lab | The University of Tennessee

Knoxville, TN

#### Research Assistant

Jun 2020 - Aug 2020

- Proceeded **interdisciplinary research** and accomplished research project *Empirical Landline Analysis* and *Chicago High School Exploration* as the subfield of Dr. Li's *Power Systems Engineering and Economics* research
- Assisted in Dr. Li's *Covid-19 Power Supply* topic by providing econometrics insights from *Boston Housing* research

### Data Analytics Boot Camp | University of California Davis

Sacramento, CA

#### Part-time Data Analyst

Mar 2020 - Sept 2020

- Spent over 750 hours working on **result-oriented data projects** and solving **real-world problems** by using Python Pandas, MySQL Database, Tableau, HTML/CSS, JavaScript Plotly and other fundamental data science tools
- Dedicated over 500 hours in **18 analytical portfolio projects** which includes applying **Pandas and Matplotlib** in *Weather Analysis* project, using **Object Oriented Programming** in *Conway's Game of Life Simulation* and *Random Number Generator* projects, developing **website crawler** to intellectually *retrieve the high-frequency information* from any website and utilizing **Object Oriented Design** to construct **inheritance-based Dice Game** application.

## DATA SCIENCE PROJECTS

### Solar System/Closest Planet Simulation

May 2022 - Jun 2022

- Constructed a simulation that computes the Euclidean distances between any two planets within 1000 earth years

### Cardiology Disease Machine Learning Detection

Apr 2022 - May 2022

- Conducted a complete data mining process from data cleaning and pre-processing phase to machine learning phase
- Decision Tree and KNN algorithms are compared thoroughly based on their performance and advanced evaluations

### Sacramento Data Analytics Job Analysis Visualization

Jul 2020 - Sept 2020

- Established an interactive DA/DS job information website by utilizing analytical tools, Tableau and Hadoop.