

# Edwin Tse

tsepaksang8@gmail.com | (619) 800-8016 | github.com/ptse8204 | ptse8204.github.io |

## EDUCATION & CERTIFICATION

### **University of California, San Diego**

**September 2020 – April 2025**

*Bachelor of Science, Double Major in Data Science and Business Economics, Minor in Urban Studies and Planning*

### **Foothill College**

**September 2018 – June 2020**

*Associate in science for Transfer, Business Administration for Transfer with High-Honors*

## WORK EXPERIENCE

### **United Parcel Service**

**April 2023 – December 2024, June 2025 – Current**

*ISM Intern/ Brokerage Administrative Assistant/ Data Entry Operator*

- Designed and deployed Power BI dashboards connected to Azure SQL to monitor supply chain communication flows, identifying operational bottlenecks and driving process improvements that increased customer and employee satisfaction
- Built an NLP-powered data entry tool to regenerate shipment information, streamlining supply chain operations by 30%, improving data accuracy by 25%, and reducing customs rejections/inspections by 50%
- Automated repetitive data entry tasks with VBA, reducing manual workload by 80% and enabling staff to focus on higher-value supply chain analysis tasks
- Created automated Win32 API software to flag documentation gaps and notify customers, improving response rates by 50% and reducing follow-up workload by 80%, ensuring on-time shipment processing
- Automated 20% of manual shipment manifest entries using Playwright and historical data, accelerating fulfillment processing and minimizing human error
- Led cross-functional coordination through transportation management systems to meet service targets and customs deadlines, minimizing late deliveries and improving SLA compliance

### **Crosswork.us**

**August 2022 – December 2022**

*Venture Capital Intern*

- Automated customer acquisition pipeline using Python, Pandas, and SQL, doubling outreach efficiency and demonstrating ability to design scalable data processes
- Conducted in-depth wealth research on emerging markets, and trends to collate qualitative as well as quantitative data; presented the report to the team in weekly meetings to recommended potential investment opportunities

### **Zego**

**June 2022 – August 2022**

*Business Analyst Intern*

- Optimized Mobile Doorman by Machine Learning, increased user retention 4.7% and customer satisfaction 50%
- Produced weekly/monthly KPI reports from Snowflake SQL data (leads, appointments, customer satisfaction), providing actionable supply chain insights to clients and stakeholders
- Overlaid results on Tableau dashboard for clients to visualize KPI performance and trends on product usage
- Developed predictive usage models (PyTorch, Scikit-learn) to forecast demand and quantify cost-benefit outcomes, boosting feature adoption by 10% and informing resource allocation decisions

## PROJECTS

*GIS project on Enhancing Access, Safety & Connectivity at Transit Hubs (<https://arcg.is/HrD4u>)*

- Conducted spatial analysis on 100,000+ parcels using ArcGIS and Python to evaluate property price patterns
- Maximize tax benefits, user experience and relieve congestion by creating a suitability model through ArcGIS
- Provide meaningful public engagement by utilizing ArcGIS Storymap

*Airfare Prediction Model and Price Discrimination Database (<https://ptse8204.github.io/flightpricebias/>)*

- Collected and analyzed 5 years of US flight data, and created price sensitivity measurement for airfare
- Trained an AI model to predicting airfare price sensitivity, with accuracy further to 95% by introducing bias mitigation methods on models, to mitigate bias from disadvantage race and economic status.

*GPA Investigation on Course and Professor Evaluation Database*

- Scrapped the data from the web using Selenium, forming a 300 MB database after extensive data cleaning.
- Concluded Statistical difference in student performance and between pre- and post-pandemic using 8 Test in R