Jian Che

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Education

Georgetown University **Expected May 2026**
M.S. in Data Science and Analytics; GPA: 4.00/4.00 *Washington D.C.*
Coursework: Statistical Computing, Database Management & SQL, Data Science Fundamentals

University of Washington **Aug. 2023**
B.A. Economics and Education; Minor in Data Science; GPA: 3.76/4.00 *Seattle, WA*
Coursework: International Finance, Econometric Applications, Population & Development

Technical Skills

Programming Languages: R, Python, SQL, HTML, CSS
Data Visulization: Matplotlib, Seaborn, ggplot2, Shiny, Latex, Quarto
Data Science & Machine Learning: Excel, Python(pandas, numpy, statsmodel, scikit-learn, matplotlib), ETL, Data Science pipeline (cleaning, wrangling, visulization, modeling, analyzing), Git, Hypothesis Testing, Regression & Classification

Experience

University of Michigan Ross School of Business **Oct.2023 - Apr.2024**
Economic Research Assistant *Ann Arbor, MI*

- Analyzed decades of U.S. childcare regulations to identify its tightening trends across states and reveal potential childcare shortages for front-line medical workers.
- Performed data cleaning for 50+ childcare regulation data by merging datasets, handling missing values, standardizing formats, and verifying accuracy for analysis.
- Performed data cleaning and integration of 50+ datasets, merging childcare center counts, regulation variables, and control factors (e.g., state population, income levels) into a comprehensive panel dataset.
- Developed visualizations (line graphs, scatter plots, heatmaps) to illustrate the relationship between childcare regulations and the supply of childcare centers, enabling clear communication of project findings.

Balance Now Co. **Sep.2023 - Apr.2024**
Project Manager Intern *Remote - Los Angeles, CA*

- Streamlined standard operating procedures (SOPs) for HR and marketing teams, improving cross-departmental collaboration and reducing onboarding time by 15%, ensuring efficient workflow and operational consistency.
- Managed and updated the past intern database, ensuring accurate tracking of contact information, career progress, and engagement history.
- Utilized Excel and pivot tables to analyze key HR metrics (hiring rates and turnover) and generate actionable insights that informed decision-making for both HR and marketing teams.
- Designed cross-platform marketing strategies based on market research and social media trends, boosting engagement by 7.4% and ensuring alignment with diversity, equity, and inclusion (DEI) goals.

Projects

No Side Effect - DataKind Hackathon | *Program Management, MySQL* **Autumn 2024**

- Coordinated retrieve of data from APIs (OpenFDA, News API, Reddit API), structuring it into a unified database of drug safety information consisting FDA pharmaceutical facts, media sentiment analysis, and drug-use news reports.
- Led the creation of a drug side effect keyword dictionary, utilizing NLP techniques for sentiment analysis to detect and rank user-reported drug reactions, highlighting high-frequency side effects.
- Developed an interactive demo app for real-time drug safety queries, allowing users to explore drug reactions and insights.

World Happiness Shiny Report | *R-Studio(Shiny, dyplyr, ggplot2, Plotly), HTML, CSS* **Summer 2022**

- Developed an interactive World Happiness Dashboard using Shiny framework in R-studio, providing dynamic visualizations of global happiness metrics across countries and years.
- Extracted datasets from World Bank, WHO annual social, health, and economic reports and optimized data ETL process with "dplyr" and "tidyverse", resulting in a 20% improvement in data quality.
- Incorporated various data visualization libraries in R to showcase diverse plots (maps, histograms, heatmaps, scatterplots) to illustrate happiness trends in different continents across time.
- Led a cross-functional team of 3 through extensive user testing sessions, gathered feedback, and fine-tuned dashboard functionalities to enhance user comprehension of world happiness data.

Fertility Regression Analysis | *Stata, Python(pandas, Statsmodel, Seaborn, SKlearn)* **Autumn 2021**

- Executed econometric analysis on global fertility rates using Python, uncovering pivotal economic and demographic determinants.
- Mapped relevant dependent and independent variables from insightful economic fertility models (The Becker Model, Quantity-Quality Trade-off Model), optimizing the potential for a robust and meaningful research direction.
- Employed Python's 'Statsmodel' for econometric analysis and aided interpretability through Seaborn visualization of key variables.
- Delivered econometric results and policy suggestions to a class of 50+ and securing the best project award among 8 competing teams.