

# JESSICA (WENXIN) GUO

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## EDUCATION

### University of California, Berkeley

Berkeley, CA

*Master of Analytics* | Cumulative GPA: 4.00/4.00

Expected August 2024

### University of California, Berkeley

Berkeley, CA

*B.A. in Data Science* | Cumulative GPA: 3.76/4.00

May 2023

## PROFESSIONAL EXPERIENCE

### Synergies Intelligent Systems, Inc.

Boston, New York(Remote)

*Data Analyst Intern*

June 2024 - Present

- Built a comprehensive dataset by extracting and preprocessing data from the COCO dataset and Open Images Dataset v7, focusing on images containing LED screens and various reference objects.
- Employed **YOLOv8** to accurately identify and locate LED screens and nearby reference objects within images, reducing object detection error by 13.3%.
- Leveraged the dimensions of reference objects to improve LED screen area estimation accuracy by 22%, applying homography and object detection techniques to achieve precise real-world measurements.

### Canadian Solar Inc.

Walnut Creek, CA

*Data Analyst Intern*

May 2023 - July 2023

- Created a custom **Excel macro**, reducing report preparation time from 8 hours to 1 hour.
- Implemented model validation using **Random Forest**, **XGBoost**, etc., in **Python** to predict average inbound lead time with different storage locations, resulting in a reduction of forecasting errors from 23% to 8%.
- Deployed interactive **Power BI** dashboards for analysts to compare lead time, enhancing data-driven decision-making.

### Gotion Inc.

Fremont, CA

*Data Engineer Intern*

May 2022 - August 2022

- Led the creation of **Grafana** dashboards for real-time battery data analysis, boosting operational efficiency by 18%.
- Built an **AWS**-based **ETL** pipeline processing 500,000+ data points daily, enhancing data management.
- Crafted optimized **SQL** queries for Grafana dashboards.
- Developed **Python** solutions to decode **CAN** (Controller Area Network), used in automotive electronics.

## RESEARCH EXPERIENCE

### UC Berkeley Data Science Discovery Program

Berkeley, CA

*Research Apprentice*

September 2021 - December 2021

- Collected Feature Request Data and trained an AI Model to predict the sentiment of a review
- Pioneered a **SaaS** Tool for extracting actionable insights from feedback data.

## PROJECT EXPERIENCE

### INDENG 243 Analytics Lab

Spring 2024

*Airbnb Recommendation System Lead Developer*

- Developed real-time filtering mechanisms to tailor suggestions dynamically based on user data.
- Crafted hybrid recommendation models, blending collaborative and content-based filtering to enhance personalization and accuracy, leading to a 25% improvement in simulated recommendation relevance.

## SKILLS

**Skills:** Proficiency in data structures and SQL coding, Designing and optimizing data-processing systems using AWS services (S3) and Lambda, Proficiency in Microsoft Excel(macro and pivot tables), machine learning, Deep Learning, NLP.

**Programming:** Java, Python, Pytorch, TensorFlow, Scheme, SQL, ETL

**Language:** Mandarin Chinese, English