

# Chuhan (Alex) Zhou

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## EDUCATION

### **University of Washington (UW), Seattle, WA**

**Expected June 2027**

*Bachelor of Science in Applied Mathematics – Data Science Option*

*GPA 3.85/4.00*

Notable Achievements: Annual Dean's List (23-24, 24-25, 25-26)

Course Highlights: Statistics, Machine Learning, Data Analytics, Systems Analysis, Data Visualization (Python, R, Tableau), Information Systems.

## EXPERIENCE

### **Sensors, Energy, and Automation Laboratory, Seattle, Washington**

**January 2026 – Present**

*Data Analyst, Strategic Consultant*

- Analyzed over 100K rows of industrial assessment data to drive energy efficiency strategies.
- Delivered actionable recommendations that resulted in annual cost savings of \$100K–\$300K+ per facility.
- Evaluated advanced monitoring technologies and translated complex findings into executive-ready insights.
- Collaborated with manufacturing partners to guide operational optimization and sustainability investments.

### **Z Career Project, Remote, US 2024**

**June 2024 – August**

*Data Science Research*

- Led an end-to-end data analysis project under guidance of a senior Amazon data analytics mentor to diagnose growth stagnation in a simulated e-commerce home goods category and deliver data-driven recommendations.
- Used SQL to clean and integrate 100K plus records across sales, user behavior, and ad performance, producing a high-quality analytical dataset with over 99 percent usability.
- Applied Python (Pandas, NumPy) for funnel and correlation analysis, identifying a 28 percent conversion drop from product page views to add-to-cart and a strong negative correlation between price-tier exposure and sales ( $R = -0.72$ ).
- Built interactive Tableau dashboards to visualize conversion paths and insights; proposed page structure and pricing strategy optimizations that were adopted by the project mentor.

### **Huaxingyue Construction Engineering Technology Co., Ltd., Beijing, CN**

**June 2023 – August 2023**

*Data Analyst Intern*

- Compiled and organized financial/project datasets (2020–2021), focusing on timelines, procurement, and cost evaluation for active construction initiatives.
- Developed Excel/Python dashboards to manage and present 10+ key metrics on costs, scheduling, and pricing, supporting regulatory and client reporting.
- Applied 15+ statistical and machine learning methods to evaluate system performance, increasing decision-making efficiency and process optimization.
- Prepared and presented three formal summary reports to senior management, ensuring findings aligned with project requirements and regulatory standards.
- Conducted systems analysis and data integration across distributor datasets, collaborating with engineering teams to meet compliance and technical goals.

## SKILLS

**Technology:** Python, R, Java, MATLAB, Tableau, Statistics, Machine Learning, Data Analytics, Systems Analysis, Project Management Tools, Tableau, Office suite.

**Language:** Mandarin (Native), English (Fluent).

## INTERESTS

AI Conference World Robotics, Beijing, China August 2024

Data visualization and storytelling, AI Ethics, Creative video editing and Short-form content production, Travel, Documenting cultural experiences, Media, Technology, Entrepreneurship, Golf