

# Jane Zou

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## EXPERIENCE

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### PricewaterhouseCoopers (PwC)

*Project Manager*

Irvine, CA

June 2023 - Present

- Engineered a full-stack AI platform using Streamlit and FASTAPI, integrated with Azure Form Recognizer, reducing document processing time from 10 hours to 2 minutes, achieving 99% extraction accuracy across 10,000+ financial records.
- Boosted model precision by 20% through the implementation of demographic profiling and NLP, enhancing classification accuracy in automated tax form analysis.
- Developed a Python-based chatbot for a national nonprofit within 3 weeks, increasing user engagement by 70% for 1,200 students.
- Visualized tax advisory performance trends using Tableau and Plotly, delivering dynamic dashboards that streamlined decision-making for senior stakeholders and improved service quality metrics by 35%.

### Jules Stein Eye Institute

*Data Scientist*

Los Angeles, CA

May 2023 - June 2024

- Published 7 papers in *Ophthalmology* and *American Glaucoma Society* journals, applying AI models to 3,000+ patient records to improve glaucoma progression forecasting.
- Built deep learning models in Python and R to predict visual field degradation, increasing early detection accuracy by 28%.
- Performed survival analysis and multivariate regression to estimate progression rates, uncovering 5 key prognostic factors used to tailor personalized care plans.

### American Express

*Lead Machine Learning Engineer*

Los Angeles, CA

June 2022 - April 2023

- Directed a team of 3 engineers to develop an ML pipeline processing 10.4M+ financial records, increasing classification accuracy by 30% and enhancing fraud detection precision.
- Analyzed campaign performance data using Pandas and Scikit-learn, optimizing resource targeting strategies and improving ROI by 80% across multiple campaigns.
- Deployed ensemble models in Jupyter Notebook to identify high-probability customer segments, increasing lead conversion by 3x.
- Automated reporting workflows, reducing model iteration cycle time by 50% and enabling faster stakeholder decision-making.

## LEADERSHIP

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### Break Through Tech AI

*Data Science Mentor*

Los Angeles, CA

July 2024 - April 2025

- Led a tech industry mentoring cohort with monthly sessions, delivered an 8-month career development curriculum to enhance data science skills, and facilitated networking and feedback that increased internship and job placement success by 100%.

### Sustainable Los Angeles Grand Challenge

*Principal Investigator*

Los Angeles, CA

September 2023 - June 2024

- Integrated LA Metro and CalEnviroScreen data using geospatial and environmental modeling in Python to support transit decisions.
- Authored a 30-page policy report influencing funding allocation strategies with impact on \$50M+ in transportation investments.
- Led research on transportation equity for 5M LA residents and presented findings to city officials, advocating for data-driven urban planning to reduce transit inequities in underserved communities.

### DataResolutions

*Senior Strategy Consultant*

Los Angeles, CA

Oct 2021 - June 2024

- Created knowledge graphs with NetworkX, mapping 100,000+ NextJS points to uncover relationships across enterprise ecosystems.
- Led a 5-person team in designing a pipeline for 500,000+ IoT sensor records, generating real-time analytics that improved operational efficiency by 25%.
- Built random forest models in Scikit-learn to segment \$1B+ in transaction data, identifying high-risk financial behavior patterns.
- Scraped 0,000+ Zillow listings using Python, delivering market trend insights that supported strategic investment decisions.

### Innovation Challenge, Young Tech Professionals Bootcamp

*Project Manager*

Los Angeles, CA

Mar 2022 - May 2023

- Managed UX research initiatives in Figma, improving platform usability by 50% and driving a 40% increase in user engagement.
- Translated business requirements into product features using design thinking, increasing alignment with user needs by 35%.
- Launched a career discovery platform for job seekers, raising user satisfaction by 30% and expanding adoption by 25% across pilot programs.

## EDUCATION

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### University of California, Los Angeles

Statistics & Data Science, Bachelor of Science

GPA: 3.91/4.00

## SKILLS

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**Technical Skills:** Python, R, SQL, HTML/CSS, JavaScript, Git, TensorFlow, PyTorch, Scikit-learn, NLTK, NumPy, Pandas, Matplotlib, Plotly, XGBoost, Docker, Azure (Form Recognizer, Blob Storage), FastAPI, REST APIs, Tableau, Power BI

**AI/ML Specializations:** Generative AI, NLP, Deep Learning, Computer Vision, LLM Fine-tuning, Regression, Classification, Clustering, Survival Analysis

**Project Management:** Agile/Scrum, cross-functional leadership, technical project scoping, stakeholder communication, product design thinking