

JUSTIN HUANG

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EDUCATION

University of California, Los Angeles

Los Angeles, CA

M.S. in Applied Statistics and Data Science (GPA: 3.96/4.0)

Expected: 12/26

- Activities: Committee on Data, Information Technology and Privacy (Member)

University of California, San Diego

La Jolla, CA

B.S. in Math-Computer Science, Minor in Data Science (GPA: 3.5/4.0)

10/20 – 03/24

- Activities: Association for Computing Machinery (Project Lead), CSE Society (Recruitment Chair)

EXPERIENCE

Software Engineering Intern - Next Play Games

08/25 – Present

Remote

- Developed and deployed a secure authentication system using the MERN stack, supporting 200+ active users and reducing unauthorized access by 30%.
- Built 10+ reusable React components, improving CMS usability and reducing UI/UX content editing time by 40%; collaborated cross-functionally with design and product teams to deliver features.
- Translated user behavior data into actionable business recommendations that guided design choices, demonstrating ability to connect analysis with product outcomes.

Research Engineer - UCLA Department of Statistics

09/24 – Present

Los Angeles, CA

- Created and benchmarked evaluation methods for large language models' truthfulness, implementing 7 peer-reviewed techniques; designed a custom benchmark of 2,000+ questions for program evaluation.
- Applied advanced measurement and statistical techniques (regression, hypothesis testing, data pipelines in SQL) to evaluate high-dimensional datasets, generating insights for Artificial Intelligence research.
- Synthesized results into written reports and presentations, developing strong problem-solving, communication, and business judgment skills.

Instructional Assistant - UCSD CSE Department

09/23 – 03/24

San Diego, CA

- Led weekly tutoring sessions for 40+ students, clarifying advanced data structure concepts (heaps, AVL trees, graphs) and reinforcing applied problem-solving.
- Evaluated programming assignments in C++ and Python, providing detailed feedback to improve coding practices, debugging, and analytical reasoning.

PROJECTS

Text Mining and Recommendation from Amazon Book Reviews | Python, SQL, NLP, TensorFlow, Afinn

04/25 – 06/25

- Analyzed 3M+ Amazon book reviews using SQL and NLP (sentiment analysis, LDA topic modeling, polarity metrics) to generate data, metrics, analysis, and trends
- Built a Bayesian Personalized Ranking recommender system in TensorFlow, achieving 0.491 hit rate@10 and 0.75 AUC

MLB Pitcher Durability Analysis | Python, R, scikit-learn, statsmodels

04/25 – 06/25

- Applied regression models, PCA, and clustering to analyze 300K+ pitch-level Statcast records, forecasting pitcher durability and identifying performance trends.
- Engineered custom metrics (Durability+, Consistency+) to quantify velocity trends and release stability, correlating results with ERA, WHIP, and FIP.

Huffman Visualization Website | JavaScript, Node.js, React, D3

03/24 – 04/24

- Developed an interactive platform to visualize Huffman encoding trees, showing data compression concepts to 200+ users.
- Designed intuitive front-end visualizations, integrating D3.js and React for scalable, responsive data displays.

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, C/C++, JavaScript, MATLAB, Stata, HTML/CSS, SAS

Frameworks & Libraries: TensorFlow, PyTorch, scikit-learn, statsmodels, Flask, FastAPI, React, Node.js, D3.js

Tools & Platforms: Tableau, Power BI, Looker, Excel, Docker, Jupyter, AWS (SageMaker, EC2, S3), Google Cloud Platform (BigQuery, Data Studio)