

Naomi Chou

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Education

University of California, Los Angeles (UCLA)

Los Angeles, CA

Bachelor of Science in Statistics & Data Science, Minors in Professional Writing & Digital Humanities

Expected June 2025

Relevant Coursework: C++, Computational Statistics, Data Structure & Algorithms, Design & Analysis of Experiments, Discrete Math, Linear Algebra, Machine Learning, Multivariate Calculus, Probability & Statistics, R, Statistical Consulting

Experience

Roadrunner Venture Studios

Los Angeles, CA

Data Analyst Intern

Feb. 2024 - Present

- Leading an extensive web scraping operation via Excel, Python, and R to collect over 10,000 publications and profiles related to 3D printing and additive manufacturing, efficiently storing and organizing findings in a custom database on AWS S3
- Conducting in-depth data analysis of the scraped datasets using NumPy and Pandas to identify optimal 3D printing technologies for Fab AI, a Roadrunners Venture Studios co-founded company merging 3D printing with prompt engineering

Spade AI

Brooklyn, NY

Data Science/AI Engineer Intern

Feb. 2024 - Present

- Elevating generative AI models by integrating prompt engineering with Python programming, leveraging the OpenAI API to improve content accuracy and quality significantly
- Developing a Python-powered chat interface to deliver precise market intelligence insights
- Utilizing Jira for project management to efficiently organize and track development tasks and collaborating on the expansion of product features to include competitor and risk analysis

UCLA Office of Advanced Research Computing

Los Angeles, CA

High Performance Computing (HPC) Systems Intern

Jan. 2024 - Present

- Enhancing scholarly communication by editing citations on Zotero and web scraping related publications, acknowledging the significant contributions of the UCLA Hoffman2 cluster to various research projects
- Conducting comprehensive data analysis to evaluate the cluster's impact and identify opportunities for optimization, informing future enhancements and user support strategies

Projects

Sentiment Analysis of Trump Tweets

Jan. 2024 – Present

- Executing a sentiment analysis on over 50,000 tweets by Donald Trump (2009-2021) focusing on anger, using R and the tidytext and tidyverse packages for precise emotion quantification and natural language processing.
- Applying time series analysis in R to chart the progression of anger levels in tweets, utilizing dplyr for data manipulation and ggplot2 for visualizing the emotional trend over 12 years

Predictive Analysis of Alcoholic Status

Oct. - Dec. 2023

- Developed a Random Forest predictive model to determine alcoholic status by analyzing a large dataset of 70,000 patient profiles with 26 predictors, achieving a significant accuracy of ~73%
- Leveraged R for comprehensive data analysis and cleaning with the 'mice' package, while applying predictive modeling packages (caret, tree, glmnet, e1071, randomForest) and enhancing data interpretation through ggplot2 visualizations

TunnelMan

July - Aug. 2023

- Illustrated proficiency in game design by developing TunnelMan, an interactive grid-based game where players navigate through levels by strategically collecting points through special items while avoiding in-game adversaries
- Programmed advanced algorithms in C++, enriching gameplay dynamics by defining character behaviors, optimizing collision detection systems, and elevating player engagement via object-oriented programming

Leadership & Involvement

Pi Sigma Epsilon, Eta Epsilon

Los Angeles, CA

VP of Finance

Sept. 2022 - Present

- Managed quarterly budget allocations exceeding \$10,000 while optimizing financial processes for streamlined operations
- Orchestrated fundraising projects that raise an average of \$2,000 each quarter for the Chapter

Skills & Interests

Languages: English (Native), Mandarin (Native), Taiwanese Hokkien (Proficient)

Skills: C++, R (tidyverse, ggplot, caret, tidytext), Python (NumPy, Pandas, Matplotlib, Scikit-Learn), SQL (Intermediate), Tableau (Intermediate), Git/GitHub, Mathematica, LaTeX, Word, PowerPoint, Teamwork, Communication, Critical Thinking

Interests: Cafe hopping, Fashion, Film Photography, Hiking, Makeup and Skincare, Museums, Traveling