# Nicholas F. Zermeno

Greater Los Angeles Area
(661)992-2775, nfzermeno@gmail.com

https://www.linkedin.com/in/nicholas-zermeno/ https://github.com/nickzermeno

## Work Experience

**Residuals Analyst** *June 2023 - Present*
Entertainment Partners Burbank, CA

- Detailed contract analysis of hundreds of legal documents for product setups maintaining strict confidentiality. Exceeded company metrics by over 150% within 5 months.
- Recreated proprietary programs in R, as well as templates in Excel, to optimize workload resulting in a 20x faster processing time.
- Meticulous and strict contract interpretation that adheres to the union guidelines of the entertainment industry.
- Coordinate with clients to ensure product quality and client satisfaction whilst meeting strict deadlines.

## Education

**California State University, Northridge** *August 2020 - May 2023*
B.S. Applied Mathematics - Cumulative GPA: 3.4 Northridge, CA
Relevant Coursework

- Rigorously established fundamental analytic properties and results, such as, limits, continuity, differentiability, and integrability
- Understood the theory and application behind multivariate regressions and optimization with a study focus on statistical mathematics
- Implemented computational techniques in Python and R for supervised learning and unsupervised learning such as K-means clustering, Convolutional Neural Networks, SVM, and logistic regressions.

## Projects

**Personal Portfolio**

- A personal portfolio website, showcasing my skills and experience in mathematics, data science and machine learning. The website effectively communicates my technical abilities and creativity through visually appealing and rigorous projects. Samples of two can be found below.

**House Prices in Iowa**
*January 2022 - May 2022*

- Collaborated with a team to use advanced regression techniques such as random forests in R to predict the sale price of a house using over 70 explanatory variables. Also performed data cleanup and presented the results visually.

**Computer Vision and Dog Breed Classification**
*August 2022 - December 2022*

- Collaborated with a team that met on regular intervals to optimize our model and present to an audience; used TensorFlow and Keras on a locally hosted GPU to accurately predict the correct breed of a dog from an image. Includes scraping the web for images of different dog breeds, applying filters to said images to create a more robust data set, and used a convolutional neural network within the deep learning framework.

## Skills

- Experience in R, JavaScript, LaTeX, Python, SQL
- Experience using TensorFlow, Keras, Numpy, Pandas, SciKit-Learn
- Advanced knowledge of Microsoft Excel
- Time management and organization
- Statistical modeling and optimization
- Data analysis and diagnostics