

**Brandon Wong**  
Los Angeles, CA – 626-223-4182 – bwong109@usc.edu - Portfolio

## **EDUCATION**

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<b>University of Southern California</b> , Los Angeles, CA <b>Viterbi School of Engineering</b> <i>Bachelor of Arts, Data Science</i> <b>Dornsife College of Letters, Arts, and Sciences</b> <i>Bachelor of Arts, Cognitive Science (Artificial Intelligence Focus)</i> <b>Honors:</b> Dean's List (All semesters)	Exp. Graduation: May 2025 Cumulative GPA: 3.8 Major GPA: 4.0
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**Relevant Skills:** Python, SQL, Machine Learning, NLP, Model Training, Model Evaluation, Scikit-Learn, Pandas, Feature Engineering, MLOps, Data Pipelines, Apache Spark, Cloud Computing (AWS EC2, DynamoDB, RDS, Snowflake, SAP HANA, MySQL, SAP BW/4HANA), Tableau, Power BI, Git, GitHub, Jupyter, C++

## **RELEVANT EXPERIENCE**

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**University of Southern California**, Los Angeles, CA  
*Part of USC's Data Science and Cognitive Science program that integrates data analytics, machine learning, and AI*

*Neural Networks Research Assistant / Data Scientist* Mar 2023 - Present

- Developed neural networks to simulate chemical pathways, improving model accuracy by 22% over baseline configurations
- Applied deep learning techniques to model neurochemical responses to chronic stress, refining network behavior and performance
- Implemented MLOps pipelines to automate model retraining and performance monitoring, ensuring experiment reproducibility

*Data Analyst* Fall 2023 - Present

- Utilized SAP HANA, Python, and SQL to preprocess and analyze Air Quality Index (AQI) levels and asthma rates, identifying regional health trends
- Developed predictive models and data visualizations to assess air quality's impact on public health using SAP Predictive Analytics

**Southern California Edison**, Pomona, CA

*Data Science Intern* May - Aug 2024

- Developed a machine learning classification model on 100M+ smart meter readings, achieving 85% accuracy in voltage classification
- Designed Tableau and Power BI visualizations to illustrate model performance and classification results, improving stakeholder decision-making
- Analyzed Microsoft Access and Excel databases, identifying premium time trends and optimizing time allocation, reducing company expenditures by 24%

**MarketCast**, Los Angeles, CA

*Data Science Intern* Jun - Aug 2023

- Performed sentiment analysis on 10,000+ survey responses using NLP techniques, identifying audience engagement trends for trailers
- Developed automated Python scripts to streamline data extraction and preprocessing, cutting time by 50% across multiple projects
- Conducted A/B and multivariate testing, leading to a 21% increase in ad retention through data-driven marketing insights

## **LEADERSHIP AND INVOLVEMENT**

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**Delta Omicron Zeta**, *Service Chair* Aug 2022--Dec 2022

- Raised \$1,000+ for The People Concern through bake sales while coordinating service events

**Theta Tau**, *Active Member* Aug 2022--Present

- Collaborate on technical projects, foster leadership, and professional networking