

# ELMER CAMARGO – DATA SCIENCE AND ENGINEERING

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## EDUCATION

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**University of Southern California, Viterbi School of Engineering** – Los Angeles, CA **May 2025**

*Master of Science, Industrial and Systems Engineering – Part Time*

- Relevant Courses: Engineering Project Management, Experiment Design, Web Technologies, Production Planning and Scheduling, Systems Engineering, Performance Analysis using Markov Models

**University of Southern California, Marshall School of Business** – Los Angeles, CA **May 2025**

*Master of Business Administration (STEM) – Part Time*

- Relevant Courses: Managerial Communication, Data Science for Business, Marketing Management, Internet Marketing, Accelerating Machine Learning for Business Transformation, GIS in Marketing

**Chapman University, Fowler School of Engineering** – Orange, CA **February 2021**

*Bachelor of Science, Data Analytics*

- Relevant Courses: Data Structures and Algorithms, CPSC I&II, Statistical Modeling, Data Science, Introduction to Machine Learning, Applied Analytics, Database Management Systems, Remote Sensing

## EXPERIENCE

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**LA County Department of Public Health** – Los Angeles, CA **2021 – Present**

*Data Scientist*

- Collaborated with epidemiological teams to develop and maintain interactive data visualizations for the LA County COVID19 dashboard [website](#) referenced by state governments, city governments, health departments, and national news agencies
- Programmed vaccination data pipelines for division, department, and countywide stakeholders focusing on auto documentation methodologies, front end and backend acceptance testing, and reporting systems

**QTZL x TAZA** – Long Beach, CA **2022 – Present**

*Software Engineer*

- Currently programming a website for a coffee shop that sells consumer-packaged goods that track QR code referral scans to unique product pages using Django REST Framework, Gunicorn, Nginx, Postgres, and React hosted on Google Cloud Platform using a microservice architecture
- Developing modules to collect data using various Graph API's on: coffee, wine, and brewery stores for site suitability analysis, sales tracking by location for inventory modeling and forecasting, and social media account and interactions tracking for ad campaign targeting and network analysis

**Chapman University: Dr. Hersh & Dr. Douglass Research Grants** – Orange, CA **2019 – 2021**

*Research Assistant*

- Engaged in academic research related to public health disparities in South Los Angeles and Sustainable Development Goals in Belize, Mexico, and the African Sahel Region; prepared statistical analysis code using K-Means clustering, Principal Component Analysis, and Linear and Nonlinear Regression
- Designed and implemented project infrastructure and schema for pipelines between remote sensing sources, demographics census sources, and various survey data into an internal PostGIS database utilizing Ubuntu, Python, Amazon S3, R, and RShiny that supported a team of 8 researchers

## TECHNOLOGIES & INTERESTS

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- Python, JavaScript, SQL, NoSQL, GQL, Kafka, NodeJS, R, C++, Spark, Postgres, MySQL, Airflow, Redis, Docker, IaaS, Git, Linux, Google Earth Engine, Github Actions, D3.js, ESRI, Django, Jira, Asana
- System Design, Database Optimization, Web Technologies, API Development, Deep Learning, Mentoring, Graph Theory, SaaS, Data Governance, Consumer Insights, NLP, Econometrics, Bayesian Statistics, Supply Chain, Coffee, Consumer Packaged Goods, Data Science and Engineering Consulting