

CLAYTON SCHOENY

Data Scientist

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EXPERIENCE

Fair

Senior Data Scientist

📅 Nov 2019 – Present 📍 Santa Monica, CA

Created the following for a personalization microservice:

- Cold Start: predicts favorable makes, models, and body styles.
- Dynamic Search: populates the order of vehicle tiles based on a users in-app behavior.
- Survey Integration: customizes the home screen and search results based on a user's survey response.

Data Scientist

📅 Jul 2018 – Nov 2019

- Invented CarRank, a self-tuning method for ranking cars in the app, balancing both business and consumer-facing factors (patent-pending).
- Developed an Airflow DAG to label new users (daily) based on their in-app behavior. Used for targeted re-engagement campaigns.
- Produced a vehicle bucketing python library that tags vehicles, allowing the users to filter cars based on quality.

Space and Naval Warfare Systems Command

Research Scientist - Intern

📅 2015 📍 Point Loma, CA

DIRECTV

Communication & Video Systems Engineer - Intern

📅 2012 & 2013 📍 El Segundo, CA

The Aerospace Corporation

Communication Systems Engineer - Intern

📅 2010 & 2011 📍 El Segundo, CA

EDUCATION

University of California, Los Angeles (UCLA)

Ph.D. in Electrical and Computer Engineering

📅 2014-2018

- Dissertation: *Coding for Future Large-Scale Data Systems*
- Focus: Information Theory
- GPA: 4.0

M.S. in Electrical Engineering

📅 2012-2014

- Thesis: *Efficient File Synchronization*

B.S. in Electrical Engineering

📅 2007-2012

- Minor: *Mathematics*
- Latin Honors: *Cum Laude*
- Senior Design Project: Interactive Speech Recognition

ABOUT ME

I am passionate about solving open-ended problems via creative approaches. I deliver excellent data science solutions by combining my statistical intuition and rigor with my ability to write production level code. I excel in cross-functional projects, working directly with stakeholders from design, marketing, and growth teams to make critical decisions.

TECH STACK & SKILLS

Python

Pandas, scikit-learn, LightGBM, NumPy, SciPy, PyTest, Hypothesis, Seaborn, Bokeh

Productionization

Git, gRPC, Docker, Kubernetes, Airflow, Flask, CI/CD, AWS (DynamoDB, S3)

Analytics

SQL, Snowflake, Looker, Amplitude, A/B Tests

Machine Learning

Classification (logistic regression, random forests, boosted trees), Clustering, Regression, Ranking

Mathematics

Probability, Statistics, Combinatorics, Linear Algebra, Calculus, Game Theory, Information Theory

HONORS

- 2018 - Distinguished PhD Dissertation in Signals & Systems Award
- 2018 - UCLA Dissertation Year Fellowship
- 2017 - Qualcomm Innovation Fellowship Winner
- 2015 - Henry Samueli Excellence in Teaching Award

PUBLICATIONS

Graduate research performed at UCLA in the *Laboratory for Robust Information Systems*



Journal Manuscripts

9 publications in top IEEE journals



Conference Proceedings

20+ publications including top IEEE & ACM international conferences



Book Chapter

Advanced Algebraic and Graph-Based ECC Schemes for Flash Memories



Best Paper Awards

- 2018 Distinguished PhD Dissertation
- 2018 & 2016 IEEE Workshop on Silicon Errors in Logic – System Effects
- 2017 ACM/IEEE Embedded Systems Week