

# 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 user's 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