

KEVIN CHUANG

SOFTWARE ENGINEER · DATA ENGINEER

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EDUCATION

San Jose State University

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

San Jose, CA

Aug. 2017 - Dec. 2019

- *Coursework:* Data Mining, Machine Learning, Deep Learning, Large Scale Analytics, Recommender Systems, Graph Mining, Big Data Engineering, Computer Vision, Natural Language Processing

University of California, San Diego

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

La Jolla, CA

Sept. 2012 - June 2016

- *Coursework:* Pattern Recognition & Machine Learning, Probabilistic Reasoning & Graphical Models

WORK EXPERIENCE

HomeLight

SENIOR DATA ENGINEER

San Francisco, CA

July 2022 - Present

DATA ENGINEER

Nov. 2020 - July 2022

- Built internal TV ad tracking, planning, & bid optimization system with multiple data sources to enable marketing team and **significantly reduce agency ad costs by \$250,000** per year using **Django, Airflow & SQL** on **AWS (ECS, S3, RedShift)** and **Heroku**
- Contributed to design, implementation, and launch of new core algorithm to rank real estate agents and match them with leads (home buyer/seller) using **Django, ElasticSearch, & SQL** on **AWS (Kinesis, S3, Redshift)** and **Heroku**, **boosting lead conversion rate by 15%**
- Designed, built, and launched core data pipelines to ingest and process critical MLS data across the US to support property listing pages (property search, property history) using **Airflow, SQL, Kafka** and **ElasticSearch**
- Designed & developed new media system to improve processing of large batches of property images using **Airflow** and **AWS (Lambda, SQS, S3, Redshift, DynamoDB, CloudWatch)**

ViacomCBS

MACHINE LEARNING ENGINEER

San Francisco, CA

Feb. 2020 - Nov. 2020

DATA SCIENCE INTERN

June 2019 - Dec. 2019

- Designed, implemented, and launched ML service to automatically generate intelligent video previews using **Django, Docker**, and **Kubernetes / Helm** on **GCP (Stackdriver, GKE, Pub/Sub, GCS, Cloud SQL)**, **Codefresh** and **Grafana** to save company money from using external services and support internal brands (**CBS News, CBS All Access**)
- Built serverless ALS collaborative filtering recommendation system using **Spark, Redis, Kubernetes**, and **GCP (BigQuery, Dataproc, GKE)** to power personalized movie / show recommendations for **CBS All Access**

Knowles Intelligent Audio

DATA ENGINEER

Mountain View, CA

Feb. 2017 - May 2019

TEST ENGINEERING INTERN

Oct. 2016 - Feb. 2017

- Designed & implemented data pipelines for verification, processing, and transfer of large amounts of critical audio data into **MongoDB** database to enable cross-functional engineering teams and created **REST API** for CRUD operations on the database

PROJECTS

Yet Another URL Shortener

Tools: Golang, MongoDB, AWS, Docker

- Collaborated with team in hackathon to design & implement microservice architecture satisfying **AKF Scale Cube** with **React.js** frontend, **Kong** API Gateway, multiple load balancers, **Golang** API microservices, and **MongoDB** clusters hosted on **AWS**

Data Science Competitions

Tools: Python, SciPy, Pandas, NumPy, Seaborn, Scikit-learn, Surprise

- Ranked **1st** in book recommender system, **2nd** in traffic image classification, **3rd** in news article text clustering, and **5th** in medical text classification in the final leaderboard of data science competitions

Utopia Alexa Skill

Tools: Python, Alexa Skills Kit, Travis CI, Codecov, Zappa, AWS Lambda, Pytest

- Developed and deployed a serverless Alexa skill to help people with depression

SKILLS

Programming

Python, Bash, Golang, JavaScript, MATLAB

Database

PostgreSQL, RedShift, BigQuery, MySQL, SQLite, MongoDB, Redis

Frameworks

Airflow, Django, Pandas, NumPy, PySpark, SciPy, Matplotlib, Scikit-learn, Selenium, Keras, Flask, TensorFlow, Pytest

Tools

Git, Docker, ElasticSearch, Heroku, dbt, Kafka, Helm, Kubernetes, Argo, CI/CD, Spark, Grafana, Prometheus

Cloud Technology

Google Cloud Platform (Pub/Sub, GCS, Cloud SQL, Dataproc, BigQuery, Stackdriver, GKE, GCR, GCE, GAE, AutoML), Amazon Web Services (SQS, EC2, S3, RedShift, ECS, Kinesis, Lambda, CloudWatch, Alexa Skills Kit, SageMaker)