KEVIN CHUANG
SOFTWARE ENGINEER · MACHINE LEARNING ENGINEER

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EDUCATION

San Jose State University   *San Jose, CA*
MASTER OF SCIENCE IN SOFTWARE ENGINEERING, GPA: 3.7 / 4.0   *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   *La Jolla, CA*
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING, GPA: 3.3 / 4.0   *Sept. 2012 - June 2016*
- *Coursework:* Pattern Recognition & Machine Learning, Probabilistic Reasoning & Graphical Models

WORK EXPERIENCE

HomeLight   *San Francisco, CA*
DATA ENGINEER   *Nov. 2020 - Present*
- Built & productionized internal TV ad tracking, planning & bid optimization system with multiple data sources to enable marketing team and significantly reduce agency ad costs using **Django**, **Airflow** & **SQL** on **AWS** (**ECS**, **S3**, **RedShift**) and **Heroku**
- Contributed to design, implementation, and productionization of core algorithm to rank real estate agents and match them with home buyers & sellers using **Django**, **ElasticSearch**, & **SQL** on **AWS (Kinesis, S3, Redshift)** and **Heroku**

ViacomCBS   *San Francisco, CA*
MACHINE LEARNING ENGINEER   *Feb. 2020 - Nov. 2020*
DATA SCIENCE INTERN   *June 2019 - Dec. 2019*
- Designed, implemented, and productionized 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   *Mountain View, CA*
DATA ENGINEER   *Feb. 2017 - May 2019*
TEST ENGINEERING INTERN   *Oct. 2016 - Feb. 2017*
- Designed & implemented **Python** data pipeline 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**

Crowd Estimation   *Tools: Python, Keras, OpenCV*
- Implemented convolutional neural network architectures in **Keras** to count people in a given image & achieved similar performance in terms of MAE and MSE as CVPR research papers

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	PostgresSQL, RedShift, BigQuery, MySQL, SQLite, MongoDB, Redis
Frameworks	Airflow, Pandas, NumPy, PySpark, SciPy, Matplotlib, Scikit-learn, Selenium, Keras, Django, Flask, TensorFlow, Pytest
Tools	Git, Docker, ElasticSearch, Heroku, 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 (EC2, S3, RedShift, ECS, Kinesis, Lambda, Alexa Skills Kit, SageMaker)