

KEVIN CHUANG

SOFTWARE ENGINEER · MACHINE LEARNING ENGINEER

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EDUCATION

San Jose State University

MASTER OF SCIENCE IN SOFTWARE ENGINEERING, GPA: 3.7 / 4.0

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

San Jose, CA

Aug. 2017 - Dec. 2019

University of California, San Diego

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING, GPA: 3.3 / 4.0

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

La Jolla, CA

Sept. 2012 - June 2016

WORK EXPERIENCE

HomeLight

DATA ENGINEER

San Francisco, CA

Nov. 2020 - Present

- Built & productionized internal TV ad tracking & 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

MACHINE LEARNING ENGINEER

San Francisco, CA

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

DATA ENGINEER

Mountain View, CA

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

PostgreSQL, 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)