KEVIN CHUANG

SOFTWARE ENGINEER · DATA ENGINEER

A San Jose, CA □ k-chuang.github.io

408 (408) 691-1788 github.com/k-chuang

 ■ kevinchuang7@gmail.com in linkedin.com/in/kevin-chuang

WORK EXPERIENCE

HomeLight San Francisco, CA SENIOR DATA ENGINEER 07/2022 - 04/2023 DATA ENGINEER 11/2020 - 07/2022

- · Designed, built, and launched core algorithm to match and rank real estate agents with home buyer and seller opportunities, boosting conversion rate by 15% using Python, SQL, Django, ElasticSearch, Airflow, AWS (Kinesis, S3, Redshift) and Heroku
- Developed internal TV ad planning and bid optimization system to support marketing team, resulting in reduction of \$250,000 annually in external ad agency costs using Python, Django, Airflow, SQL, AWS (ECS, S3, RedShift), and Heroku
- Spearheaded design and deployment of mission-critical data pipelines to showcase property listing images and transaction history, enhancing user experience on company's primary website using Python, Airflow, SQL, ElasticSearch, Kafka and AWS (Lambda, SQS, S3, Redshift, Kinesis, DynamoDB)
- · Implemented record linkage solution to support operations team in tracking real estate agents and transactions, leading to discovery of missed revenue opportunities totaling over \$500,000 utilizing Python, SQL, Airflow, Redshift, and ElasticSearch

ViacomCBS San Francisco, CA MACHINE LEARNING ENGINEER 02/2020 - 11/2020 **DATA SCIENCE INTERN** 06/2019 - 12/2019

- Designed, built, and launched machine learning application to automatically generate and expose engaging video previews to support internal brands (CBS News, CBS All Access) and remove dependency on external services, resulting in significant cost savings using Python, Django, Kubernetes / Helm, and GCP (GKE, Pub/Sub, GCS, Cloud SQL)
- Built serverless collaborative filtering recommendation system to power personalized movie / show recommendations for CBS All Access using Python, Spark, Redis, Kubernetes, Argo and GCP (BigQuery, Dataproc, GKE)
- · Developed and launched backend API for creating personalized movie / show recommendation carousels for millions of new & trial users on CBS All Access, enhancing user experience using Python, Django, Redis, Kubernetes, and GCP (GKE, Cloud SQL)
- Researched various text summarization methods (TextRank, Pointer Generator) to create cloud-native text summarizer application consisting of Chrome extension (JavaScript) with Python Flask backend server deployed on Google App Engine using Docker

Knowles Intelligent Audio

Mountain View, CA

DATA ENGINEER 02/2017 - 05/2019 **TEST ENGINEERING INTERN** 10/2016 - 02/2017

• Designed & implemented **Python** data pipelines for verification, processing, and transfer of large amounts of critical audio data into **Mon**goDB database to enable cross-functional engineering teams

SKILLS

Programming Python, SQL, Bash, Golang, JavaScript, Java, MATLAB

Database PostgresSQL, RedShift, DynamoDB, BigQuery, MySQL, SQLite, MongoDB, Redis

Airflow, Django, ELK (Elasticsearch, Logstash, Kibana), Pandas, Spark, Git, Docker, Kubernetes, Helm, Pytest, NumPy, **Tools**

SciPy, Matplotlib, Scikit-learn, Keras, TensorFlow, Heroku, dbt, Kafka, Flask, CI/CD, ETL / ELT, Hadoop, Excel, REST API

Amazon Web Services (RedShift, DynamoDB, Lambda, ECS, EKS, SQS, S3, Kinesis, Athena, CloudWatch, SageMaker, Cloud

EMR), Google Cloud Platform (Pub/Sub, GCS, Cloud SQL, Dataproc, BigQuery, Stackdriver, GKE, GCR, GCE, GAE, AutoML)

EDUCATION .

San Jose State University

San Jose, CA

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

08/2017 - 12/2019

University of California, San Diego

La Jolla, CA

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

09/2012 - 06/2016

Projects.

Yet Another URL Shortener

Takeaways: Microservices, AKF Scale Cube, System Design

· Collaborated with team in hackathon to design, implement, and launch URL shortener web service that satisfies AKF Scale Cube with React.js frontend, Kong API Gateway, multiple load balancers, Golang API microservices, and sharded MongoDB clusters hosted on AWS

Data Science Competitions

Takeaways: Data Analysis, Feature Engineering, ML Model Lifecycle

· 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 using Python (pandas, scikit-learn, matplotlib, scipy)