KEVIN CHUANG
SOFTWARE ENGINEER · DATA ENGINEER

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WORK EXPERIENCE

HomeLight
San Francisco, CA

SENIOR DATA ENGINEER — *07/2022 - Present*
DATA ENGINEER — *11/2020 - 07/2022*

- Designed, built, and launched core algorithm to rank and match real estate agents with leads using **Python**, **SQL**, **Django**, **ElasticSearch**, **Airflow**, **AWS (Kinesis, S3, Redshift)** and **Heroku**, **boosting lead conversion rate by 15%**
- Implemented internal TV ad tracking, planning, & bid optimization system utilizing many different data sources to support marketing team and **significantly reduce agency ad costs by $250,000** per year using **Python**, **Django**, **Airflow**, **SQL**, **AWS** (**ECS**, **S3**, **RedShift**) and **Heroku**
- Architected data processing system to process & expose US property data (property images, property history) supporting HomeLight website pages using **Python**, **Airflow**, **SQL**, **ElasticSearch** and **AWS (Lambda, SQS, S3, Redshift, DynamoDB)**
- Developed record linkage solution of disparate data sources to support operations team in keeping track of real estate agents & transactions and uncovered **hundreds of thousands of dollars in missed potential revenue** using **Python, SQL, Airflow, Redshift, ElasticSearch**

ViacomCBS
San Francisco, CA

MACHINE LEARNING ENGINEER — *02/2020 - 11/2020*
DATA SCIENCE INTERN — *06/2019 - 12/2019*

- Designed, built, and launched ML system consisting of web service & event-driven batch processing jobs to automatically generate intelligent video previews using **Python**, **Django**, **Docker**, **Kubernetes** / **Helm**, **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**)
- Developed serverless, batch processing collaborative filtering recommendation system using **Python**, **Spark**, **Redis**, **Kubernetes**, and **GCP** (**BigQuery**, **Dataproc**, **GKE**) to power personalized movie / show recommendations for **CBS All Access**
- 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 **MongoDB** database to enable cross-functional engineering teams

SKILLS

Programming	Python, Bash, Golang, JavaScript, MATLAB
Database	PostgresSQL, RedShift, DynamoDB, BigQuery, MySQL, SQLite, MongoDB, Redis
Tools	Airflow, Django, ELK (Elasticsearch, Logstash, Kibana), Pandas, Spark, Git, Docker, Kubernetes, Helm, Pytest, NumPy, SciPy, Matplotlib, Scikit-learn, Keras, TensorFlow, Heroku, dbt, Kafka, Flask, CI/CD, ETL / ELT, Hadoop, Excel
Cloud	Amazon Web Services (RedShift, DynamoDB, Lambda, ECS, EKS, SQS, S3, Kinesis, Athena, CloudWatch, SageMaker), 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)**

Utopia Alexa Skill
Takeaways: REST API, Web Scraping, Software Testing, Code Coverage

- Developed and deployed a serverless Alexa skill to help people with depression using **Python** and **AWS (Alexa Skills Kit, Lambda)**