

KEVIN CHUANG

SOFTWARE ENGINEER

🏠 San Jose, CA
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WORK EXPERIENCE

Adobe

SENIOR SOFTWARE ENGINEER

San Jose, CA
09/2024 - Present

- Built scalable data pipelines and systems to extract campaign performance insights across multiple paid channels, power marketing dashboards, and support marketing models using **Databricks, Spark, Airflow, Python, SQL, and PowerBI**
- Built and maintained mission-critical data pipelines to measure mobile app campaign performance across multiple products and regions — serving thousands of active users and informing strategic spend allocation

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SOFTWARE ENGINEER

San Francisco, CA
09/2023 - 09/2024

- Built data pipelines with data quality checks for multi-channel, multi-touch marketing attribution, enabling marketing and analytics teams to better allocate marketing spend and explore growth opportunities using **Python, Airflow, SQL, Segment, AWS (Redshift)**
- Developed microservice to scrape car rental competitor websites to get vehicle pricing data to support competitive pricing efforts using **Python, SQL, Kubernetes, Terraform, REST API, AWS (SQS, S3, Redshift)**
- Contributed to core data services framework by creating reusable, tested software components for ETL and data quality using **Python, SQL** to enable team in quickly creating robust data pipelines for vendors and internal teams, **decreasing pipeline development time by 30%**
- Developed data pipelines to ingest and push data to support efforts across cross-functional teams in growth and performance marketing using **Python, SQL, SFTP, REST API, AWS (S3, Redshift)**

HomeLight

SENIOR SOFTWARE ENGINEER

San Francisco, CA
07/2022 - 04/2023

SOFTWARE ENGINEER

11/2020 - 07/2022

- Designed, built, and launched core microservice 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), 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), 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, AWS (Lambda, SQS, S3, Redshift, Kinesis, DynamoDB)**

ViacomCBS

MACHINE LEARNING ENGINEER

San Francisco, CA
02/2020 - 11/2020

DATA SCIENCE INTERN

06/2019 - 12/2019

- Designed, built, and launched machine learning microservice 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, 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, GCP (GKE, Cloud SQL)**

SKILLS

Programming

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

Database

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

Tools

Databricks, Airflow, Django, ELK (Elasticsearch, Logstash, Kibana), Pandas, Spark, Git, Docker, Kubernetes, Helm, Pytest, NumPy, SciPy, Scikit-learn, Keras, TensorFlow, Heroku, Kafka, Flask, CI/CD, ETL/ELT, REST API, SFTP, OOP

Cloud

Amazon Web Services (RedShift, DynamoDB, Lambda, ECS, EKS, SQS, S3, Kinesis, Athena, CloudWatch, SageMaker, EMR), Google Cloud Platform (Pub/Sub, GCS, Cloud SQL, Dataproc, BigQuery, Stackdriver, GKE, GCR, GCE, GAE, AutoML)

EDUCATION

San Jose State University

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

San Jose, CA
08/2017 - 12/2019

University of California, San Diego

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

La Jolla, CA
09/2012 - 06/2016