

Victor Kobayashi

✉ vkobayas@uwaterloo.ca | 🏠 kobai.github.io | 🐙 Kobai | 🌐 vkobay

Skills

Languages: Python, SQL, NodeJS, TypeScript
Frameworks: Airflow, DBT, Flask, React, Pytorch, Git, AWS, Docker, Kubernetes

Experience

Data Engineer | [Super](#) Aug 2022 - Present

- Reduced hotel mapping dag run times by over **50%** by automating verification tasks

Data Scientist | [Shopify](#) Sep - Dec 2021

- Developed a report to analyze marketing channel GMV by user device types
- Coordinated with product team to create a dashboard to measure the impact of beta feature
- Modified data job to pull data from the new payment processing api while remaining backwards compatible with the old api

Machine Learning Engineer | [Zynga](#) Jan - Apr 2021

- Integrated **fluent-bit** into project microservices, enabling efficient event data streaming into **AWS Kinesis**
- Automated microservice deployments to **EKS** development clusters with **Jenkins**
- Developed a dynamic event filter system capable of applying real-time adjustments to filter criteria
- Maintained **reinforcement learning** pipeline to deliver over **5000** personalized notifications per day

Machine Learning Engineer | [PerkinElmer](#) May - Aug 2020

- Built a custom data loader for a synthetic data generation model to cut down training time by **37%**
- Introduced test driven development to the AI Research Team and built out an automated unit testing suite
- Conducted research and proposed the use of **Cramer GANs** for synthetic data generation
- Created image augmentation modules to boost image masking performance in low performing areas

Software Developer | [ROSS Intelligence](#) Sep - Dec 2019

- Developed sign-up free trials to enable prospective clients to try ROSS while maintaining data privacy
- Created an **AWS Lambda** service to apply event tracking to over **2000** outbound emails per month
- Automated Serverless function deployments with **Travis-CI** to minimize deployment errors

Software Engineer | [Super](#) Jan - Apr 2019

- Improved Lighthouse performance scores over **400%** by implementing SSR into React components
- Developed an internal tool with **Flask** to facilitate and audit hotel bidding on multiple meta-channels
- Built an internal tool to enable self-serve hotel pricing experimentation for the analytics team

Projects

Name That Genre 🎧 Dec 2019

- **Embedding + CNN** model that classifies a song's genre based on the song's lyrics
- Model was developed with **Keras** and achieved **F1 scores** of up to **0.79**

Beat 🎵 Jan 2018

- Received the **Best UI/UX Hack** award and ranked in the Top 10 hacks at PennApps Retro
- Designed the UI and contributed to the **ionic** implementation

Education

University of Waterloo | Cheriton School of Computer Science 2017 - 2022

- Bachelors of Computer Science with Distinction