Victor **Kobayashi**

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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 run times by over **50%** by automating mapping verification tasks
- Designed a pipeline to automate the updating and self hosting of **10M+** hotel images on **CloudFront**
- Built custom ELTs to automate data extraction from multiple financial data providers, powering the lending decisioning behind X cash advance applications

Data Scientist | Shopify
Sep - Dec 2021
- Built reports to segment marketing channel GMV by user device types
- Collaborated with product teams to develop dashboards measuring the impact of beta features
- Upgraded data job to ingest from a new payment api while maintaining compatiblity with the legacy api

Machine Learning Engineer | Zynga
Jan - Apr 2021
- Integrated **fluent-bit** into ML team microservices, enabling efficient event 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