

# Victor Kobayashi

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## Skills

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**Languages:** Python, NodeJS, TypeScript, C++, C, Java, Bash, Scheme  
**Frameworks:** PyTorch, Keras, Flask, FastAPI, React, PostgreSQL, Git, AWS, Travis-CI

## Experience

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### Machine Learning Engineer | [PerkinElmer](#)

May - Aug 2020

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### Software Developer | [ROSS Intelligence](#)

Sep - Dec 2019

- Trained **SpaCy** model to detect citations in legal cases at a higher accuracy than existing models
- Developed secure sign-up free trials to enable prospective clients to try ROSS while maintaining data privacy
- Built a group discounts feature to encourage solo practitioners to share ROSS with their colleagues
- Created an **AWS Lambda** service to apply event tracking to over **2000** outbound emails per month
- Eliminated Serverless function deployment errors and saved developer time by automating it on **Travis-CI**

### Software Engineer | [SnapTravel](#)

Jan - Apr 2019

- Boosted SnapTravel's lighthouse performance score over **400%** by making components SSR compatible
- Developed an internal tool with **Flask** to simplify and audit the bidding process on multiple meta-channels
- Built an interface with **Flask** and **Redis** to enable pricing adjustments without developer assistance
- Created Google ads landing page variants for A/B testing in **React**
- Modernized the A/B testing dashboard and implemented auto-expiring experiments

### Software Developer | [TemboSocial](#)

May - Aug 2018

- Converted inline email report into pdf attachments to enable offline accessibility
- Re-designed numerous parts of the platform to improve the user experience with **React**

### Scouting Leader | [FRC Team 610](#)

Jan - Apr 2017

- Developed an **android** application to efficiently aggregate match data
- Lead the development of a beta web application to allow team members to scout on their personal devices

## Projects

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### 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**

### PokeType

Mar 2019

- **CNN** classification model built with **PyTorch** that determines a pokemon's type using its sprite image

### 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

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### University of Waterloo | Cheriton School of Computer Science

(Expected) 2017 - 2022

- Candidate for a Bachelors of Computer Science
- Courses: Operating Systems, Algorithms, Cryptography, Statistics, Object Oriented Programming