

Ryan Jiang

[ryan-qiyu-jiang.github.io](https://github.com/ryan-qiyu-jiang) | ryan.qiyu.jiang@gmail.com

Experience

IMC Trading

Software Engineering Intern

Chicago, IL
June 2021 - August 2021

University of Waterloo

Research Assistant

Waterloo, ON
September 2020 - December 2020

PyTorch, Python, C++

- Researched deep learning methods for computer vision and weakly supervised semantic segmentation with Professor Yuri Boykov
- Identified boundary collapse conditions for segmentation based pairwise regularization
- Proposed and found evidence supporting new pretraining method for segmentation

Bloomberg

Software Engineering Intern

New York, NY
January - May 2020

Python, Java, Spark, Airflow

- Researched and developed personalized news recommendation system improving user engagement during the rise of the pandemic
- Implemented new recommender at scale beating existing methods in clickthrough-rate
- Developed collaborative user embeddings for real-time recommendations
- Implemented deep content-based user and article embeddings for real-time recommendations

Amazon

Software Engineering Intern

Seattle, WA
May - August 2019

C++, Tensorflow, Python, Node, Serverless, DynamoDB

- Enabled universal product autocrop by developing latency optimized object detection, experimentation in Python, inference run directly by image processing servers in C++
- Raised the bar on app quality by implementing app deployment gating for internal app hosting platform, with serverless lambdas, SNS pubsub, and DynamoDB
- Developed app deprecation that preserves deployment history with edge-lambdas and SWF workflows

Skills

Proficient: C/C++, Python, PyTorch, R

Familiar: Node.js, Spark/Hadoop, Go, Kubernetes

Achievements

Open Source Contributor: *Synaptic-Flow, ORI Distributed FileSystem, Keras*

Canadian Computing Olympiads (2017): *CCO Bronze, CCC Top 20*

Education

University of Waterloo

Candidate for Bachelor of Computer Science

2017 - May 2022