

Ryan Jiang

ryan-qiyu-jiang.github.io

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Experience

- **Petuum** Pittsburgh, PA
May - August 2018
Software Engineering Intern
 - Developed data visualization UI module with cache optimization
 - Cloud migration of Symphony web services to Kubernetes
 - Helped enable Symphony to run on just cluster partitions

Skills

Proficient: C/C++, Kubernetes, Python (Tensorflow), Go

Familiar: Docker, Node js, Spark/Hadoop, Bash scripts

Projects

Cassiopeia : Go, Distributed Systems

<https://github.com/Ryan-Qiyu-Jiang/cassiopeia>

- Distributed hash-table based off Cassandra, with pieces of Kademlia and other systems
- Tunable consistency, fault-tolerant, elastic

Strata Distributed Collaborative-Filtering: Python, Spark

https://github.com/Ryan-Qiyu-Jiang/strata_dsmf

- Distributed matrix factorization using strata optimization inspired by IBM paper
- 70% faster than iterative parameter-mixing techniques on three nodes over movielens dataset

Marmalade : ES6, Algorithms

<https://github.com/Ryan-Qiyu-Jiang/marmalade>

- Chess AI chrome extension
- Minimax with alpha-beta pruning and progressive deepening optimizations

X-Box : ES6, AI

<https://github.com/Ryan-Qiyu-Jiang/x-box> http://x-box.netlify.com/#/?_k=kig542

- Casey obeys commands and answers questions about her own behaviour
- Expert-system goal tree transversal to answer text questions

Education

University of Waterloo

2017- May 2022

Candidate for Bachelor of Computer Science

Achievements

Open Source Contributor(2019) : Python

Tensorflow, Keras

I like helping out.

Terminal (2019) : Python

40th Global Leaderboard

AI bot competition by C1, sponsored by Citadel. Build a bot that defeats other bots.

Canadian Computing Olympiads (2017) : C++

CCO bronze, CCC Top 20

National coding competition. Solve problems with algos like longest path, set-cover, and dp.