

Ryan Jiang

ryan.qiyu.jiang@gmail.com

Experience

- **Petuum** Pittsburgh, PA
May - August 2018
Software Engineering Intern
 - Developed data visualization UI module with cache hierarchy optimization
 - Implemented simple distributed gql msg broker with node and redis cluster on k8s
 - Implemented Symphony k8s ingress reverse proxy and namespaced Symphony over kubernetes
- **Lokafy** Toronto, ON
June - August 2016
Software Development Intern
 - Developed FE rework, Angular
 - Implemented REST apis, Django, MySQL

Skills

Proficient: C/C++, Node, Go, K8s, Spark

Familiar: Java, Python, Docker, Django, MySQL, MongoDB

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
- Includes a client, cli and import package for one or many machines
- Tunable consistency, fault-tolerant, elastic

Strata Distributed MF: 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 on three nodes over movielens dataset

Marmalade : AI, Algorithms

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

- Chess AI chrome extension
- Minimax with alpha beta pruning and progressive deepening optimizations
- Built for beating my dad on lichess

Education

University of Waterloo

2017- August 2022

Candidate for Bachelor of Computer Science

Dean's List: 2017-2018, GPA: 3.9

Achievements

Canadian Computing Olympiads (2017)

CCO bronze, CCC Top 20