Ryan Jiang

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Experience

- **Petuum**   Pittsburgh, PA
  Software Engineering Intern   *May - August 2018*

  - Developed data visualization UI module with cache hierarchy optimization
  - Implemented simple distributed gql msg broker with node and redis cluster on k8s
  - Simplified client and dev access to Symphony product by implementing namespaces over kubernetes, and k8s ingress reverse proxy

- **Lokafy**   Toronto, ON
  Software Development Intern   *June - August 2016*

  - Developed front-end rework with Angular
  - Implemented REST apis with Django and MySQL

Skills

Proficient: Spark/Hadoop, C/C++, Python(NumPy, TensorFlow)
Familiar: Go, Node js, Java, Docker, Django, K8s, 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 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 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