





# Ryan Wang

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## Skills

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**Languages:** C++, JavaScript, Ruby, Elixir, Java, Python, Scala, SQL, HTML, SCSS

**Frameworks:** React, Rails, Phoenix, GraphQL, Node.js, Spark, Hadoop

**Tools:** git, vim, Docker, Splunk, CircleCI, ElasticSearch, Kibana

## Experience

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Software Engineering Intern – theScore Inc., Toronto September – December 2017

- Rewrote JSON serialization of the most commonly used API endpoint and implemented dynamic fragment caching with Memcached, reducing average response times by over 60%
- Rebuilt and expanded internal AWS S3 archive search tool using Elixir, Phoenix, and JavaScript
- Implemented processing and API exposure of formatted betting odds for all major soccer leagues
- Migrated several projects onto CircleCI 2.0, reducing build and test times by an average of 65%
- Deployed numerous features, enhancements, and bug fixes across the API and supporting services

Software Engineering Intern – theScore Inc., Toronto January – April 2017

- Designed and implemented a GraphQL API for golf using Rails, GraphQL-Ruby and GraphQL-Batch
- Setup full support for the World Baseball Classic tournament, which had 1.5 million daily page views
- Created real time XML data ingestion pipeline in Python and provided API support during tournament

Software Engineering Intern – Paytm Labs, Toronto May – August 2016

- Built a React and Play Scala web application to visualize and validate product recommendations
- Implemented a RESTful API that queried an ElasticSearch server for the web client to use
- Wrote Spark jobs to process large datasets of over 5 million rows on Hadoop clusters

## Projects

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Mattermost

- Contributor to the open source, self-hosted Slack alternative written in React and Go
- Submitted numerous functionality improvements and bug fixes in the web client

Megaman X

- Programmed a version of Megaman by Capcom using Java, Eclipse, and Adobe Photoshop
- Used Object Oriented Programming to implement a character, random enemies, and terrain objects

## Education

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University of Waterloo, Bachelor of Software Engineering (2020) September 2015 – Present

## Activities and Interests

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- Classical RCM ARCT pianist who also enjoys Broadway and film music
- Occasional Overwatch, Starcraft II, and Diablo III player