



# Ryan Wang

R-Wang97 

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## Skills

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**Languages:** Python, C++, JavaScript, Ruby, C#, Java, Elixir

**Frameworks:** ReactJS, Django, Rails, Unity, Phoenix, GraphQL, Spark

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

## Experience

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A Thinking Ape – Software Engineer (Kingdoms of Heckfire) May – August 2018

- Designed and implemented generic subscription support for all games and platforms (iOS/Android)
- Built a subscription-specific feature for Kingdoms of Heckfire to allow users to have two buildings in their kingdom to be under construction simultaneously instead of only one
- Extended the game's attribute system to support higher level and tier caps for the content extension
- Implemented server (Django) and client changes (Unity) needed to support chat avatars in game

theScore Inc. – Backend Developer September – December 2017

- Prototyped new JSON serialization logic of a high traffic API endpoint and implemented dynamic view fragment caching with Memcached, reducing average response times by over 60%
- Implemented data processing and API exposure of betting odds for all major soccer leagues
- Rebuilt and expanded internal AWS S3 archive search tool using Elixir, Phoenix, and JavaScript
- Migrated several Rails services onto CircleCI 2.0, reducing build times by 65%

theScore Inc. – Backend Developer January – April 2017

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

Paytm Labs – Full Stack Developer May – August 2016

- Built a ReactJS 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 consume

## Projects

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Mattermost

- Long-time contributor to the open source, self-hosted Slack alternative written in ReactJS and Golang
- Named as the MVP (Most Valued Professional) for contributions made to the Version 4.5 release

## 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
- Board games such as Catan, Coup, Avalon, and Exploding Kittens