



Ryan Wang

R-Wang97 

ryan-wang.com 

shirui.wang@uwaterloo.ca 

linkedin.com/in/shiruiWang 

Skills

Languages: Python, C++, Go, JavaScript, Ruby, C#, Java

Frameworks: Kubernetes (k8s), ReactJS, Django, Rails, EnvoyProxy, Unity, GraphQL

Tools: git, vim, ElasticSearch, Docker, Grafana, Kibana

Experience

Lyft – Software Engineer, Infrastructure

January – April 2019

- Designed and built infrastructure to allow the k8s horizontal pod autoscaler to scale on custom metrics
- Built a generic short-term metrics cache using Go with an API for the Kubernetes autoscaler to consume
- Modified metrics pipeline to asynchronously flush desired stats from EnvoyProxy to the metrics cache
- Assisted with setting up the SignalFx integration for monitoring Kubernetes components within clusters

A Thinking Ape – Software Engineer, Kingdoms of Heckfire

May – August 2018

- Designed and implemented in-app subscriptions support for all games and platforms (iOS and Android)
- Created a subscription-only game feature that increased the monthly game revenue by over 10k USD
- Built a receipt parser in Python that interfaces with Apple and Google's servers to validate and asynchronously update users' subscription status near the expected expiry date
- Modified client and server logic to allow users to start concurrent game timers only if they have the associated subscription purchased, and updated the UI to dynamically show number of available timers
- Updated Django server payload and made client UI changes to show user avatars beside chat messages

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
- 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

Mattermost - github.com/mattermost

- Contributor (2+ years) to the open source, self-hosted Slack alternative written in ReactJS and Golang
- Named as the Most Valued Professional (MVP) for contributions made to the Version 4.5 release

Education

University of Waterloo, Bachelor of Software Engineering (2020)

September 2015 – Present