

# Wenfeng Pan

A Computer Science Student at University at Buffalo

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## Education

**Master of  
Computer Science,**  
University at Buffalo  
2018 - Feb.2020 Buffalo, NY

**Bachelor of  
Software Engineering,**  
Qingdao University  
2014 - 2018 Qingdao, China

## Skills

### Languages:

C++	C
Python	Java
Ruby	JavaScript
Go	

### Frameworks:

Django	Flask
Pandas	Numpy
Vue.js	Angular.js

### Workflows:

Linux	Docker
RESTful	Jira
gRPC	RabbitMQ
Fabric	traefik

### Database:

Redis	MongoDB
SQLite	MySQL
PostgreSQL	

## Interests

Software Development  
Site Reliability Engineering  
System engineering  
DevOps engineering

## Employment

**Electronic Arts (EA) | System Engineer Intern – Austin, TX** (May 2019 - Aug. 2019)

- Built a delivery request tool using Python, Flask, React and MongoDB
- Implemented microservices architecture using RabbitMQ Publish–subscribe pattern to expedite the process of building game servers
- Assembled every component in the microservices as docker container, which supported rapid development and testing through continuous integration and deployment in GitLab

**ifanr Inc. | Software Engineer Intern – Guangzhou, China** (Mar. 2018 - Aug. 2018)

- Participated development of a BaaS Serverless Platform which was similar to AWS Lambda
- Changed the basic authorization to Single Sign On (SSO), which reduced 15% server load
- Used Python to maintain an old version Twitter Bot, which published article automatically

## Projects

**Amazon Dynamo Style Key-value Store** (Jan. 2019 - May. 2019)

- Implemented distributed storage system using Android application, supported basic object actions and membership maintenance
- Implemented a cycle replication system for key-value partitioning using SHA-1 function
- Designed object versioning system and used Merkel tree for resynchronization after failures
- Satisfied linearizability consistency and availability of CAP theorem for all clients in the system

**Beijing Housing Price Prediction** (Jan. 2017 - May. 2017)

- Showed data virtualization by Pandas, NumPy, matplotlib, and displayed the performance of the decision tree
- Input 10,000 groups data of housing price as a practice, and achieved 78.92% model performance

**Facial Attractive Computing** (July 2016 - Dec. 2016)

- Used TensorFlow framework to build CNN network, combined such technologies as face alignment, multiregional feature extraction of human faces, etc.
- Got the alignment and redundant feature through facial landmark detection and rotation, and multiregional feature extraction of human faces, thus enhanced CNN performance.

## Activities

**EA CTO Tech Fair 2019 | Delivery Request Framework** (Aug. 2019)

- Talked with EA CTO Ken Moss and other employees about the project architecture
- Set up the demo with Nginx, Python, RESTful API and React.js

**Qingdao Hackathon 2016 | Raspberry Pi Live Streaming** (Dec. 2016)

- Rank #1 out of 26, <https://github.com/pwfee/Raspi-Online-Barrage>
- Implemented the basic barrage live streaming system, which is similar to bilibili.com
  - Used Raspberry Pi as server, support for streaming up to 100 clients