

# Wenfeng Pan

A Computer Science Student at University at Buffalo

(414) 666-4466  
vinsonring@gmail.com  
linkedin.com/in/wenfengpan  
https://wenfeng.me

## 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	Kafka
gRPC	RabbitMQ
Fabric	Chef

### Database:

Redis	MongoDB
SQLite	MySQL
PostgreSQL	

## Interests

Software Engineering  
Site Reliability Engineering  
Systems engineering  
DevOps engineering

## Employment

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

- Built a delivery request tool using Python, Django, Flask, React and MongoDB, which integrated with automation tools and simplified the process of infrastructure deployment
- Implemented a RESTful microservices architecture using RabbitMQ Publish-subscribe pattern to expedite the process of building game servers (20% faster)
- 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 similar to AWS Lambda, which provided high-quality services for 50,000 developers and 80,000 applications every day
- 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 consistency and availability of CAP theorem for all clients in the system

**QDUCC - Mobile APP Python Backend** (July 2015 - Dec. 2017)

- Wrote a VPN client that solved the NAT traversal problem between Amazon Web Services and campus Intranet, which keep the system robust and stable.
- Embedded Microsoft Azure Speaker Recognition API to power the application with an intelligent verification tool.
- Implemented a high-performance lottery module and utilized Redis Message Queue to enhance the response time.

**Twitch Style Live Streaming Platform** (Dec. 2016 - Jan. 2017)

- Implemented the online streaming system with Node.js, WebSocket and FFmpeg
- Used a single Raspberry Pi as server, support streaming up to 100 viewers without CDN

## Activities

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

- Talked with EA CTO Ken Moss and other employees about the project architecture

**UB Hackathon 2018 | Virtual Student Assistant Bot** (Nov. 2018)

- Implemented a virtual student assistant bot with Google Assistant SDK

**QDU Linux Open Source Software Club | Host / Co-founder** (Jan. 2017)

- Held the open-source technology lecture every week
- Created a Linux User Group to promote the open-source software movement

**Qingdao Hackathon 2016 | Rank #1 out of 26** (Dec. 2016)