

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)