

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 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