

Yinuo Zhang

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in /Yinuo-Zhang
🐙 /limboaz
🌐 limboaz.github.io

🎓 Education

Stony Brook University

BS Computer Science & Applied Mathematics, GPA 3.61

2017 – 2020

Stony Brook, NY

Huazhong University of Science and Technology

BE Digital Media Technology, transferred out.

2015 – 2016

Wuhan, China

🔧 Experience

File Systems and Storage Lab (FSL)

Research Assistant

Aug 2019 –

Stony Brook, NY

- Working on project Re-animator where we capture and replay system calls of programs. Supervised by Prof. Erez Zadok, sponsored by NSF as an hourly employee.
- Currently implementing system call replaying for the replayer in C++.

Tencent

SDE Intern

June 2019 – Aug 2019

Shenzhen, China

- Completed a project that connects Tencent's financial management to banks directly, as part of the company's ERP system. It performs direct transactions, information retrieval and various investments. The project has been deployed.
- Migrated the above monolithic Spring project to Tencent Finance's own microservice framework. The migrated service is currently under testing.

Wanxiang Aviation

Software Engineer Intern

July 2018 – Aug 2018

Xi'an, China

- Worked on a smart lock IoT project based on Narrowband-IoT, connected the hardware (NB-Device) to China Telecom IoT platform and built a server on cloud to subscribe to device data for future application and issue commands to the devices. The project has been deployed.

Stony Brook University

Undergraduate Teaching Assistant

Sept 2017 – May 2019

Stony Brook, NY

- Worked as Teaching Assistant for CSE215 (Discrete Mathematics) and CSE307 (Programming Languages).
- Taught recitations for a group of 30 students on course matter for CSE215 for two semesters.
- Responsible for holding office hours, Piazza question answering, exam and homework grading, etc. Helped over 200 students to excel in their course work so far.

CEWIT

Research Assistant

June 2017 – Sept 2017

Stony Brook, NY

- Worked on an Android app that takes audio and camera inputs then analyzes them to match specific users (two-factor authentication).
- Worked with Java NDK (with OpenCV), Google Vision API and Android Studio.
- A paper with me as the third author on the project is currently under review for ACM Transactions on Mobile Computing.

Projects

xv6

Course project for CSE306 (Operating Systems)

- > A linux-like operating system with modifications and more features including memory/process/file management. Implemented/modified multiple system calls, drivers, user programs, etc. Based on the MIT xv6; worked with C, gdb, Valgrind, assembly, QEMU.

StackTraceException

Course project for CSE356 (Cloud Computing)

- > A fully functioning, scalable, distributed, and highly concurrent StackOverflow clone, supporting most of the original StackOverflow features. It is capable of hosting over 200,000 users concurrently with 95% QoS under 30ms for all operations, including search queries, with the usage of 20VCPU's and 20G RAM for the entire service. Worked with MongoDB cluster, Cassandra cluster, ELK stack, nginx, NodeJS, Ansible, etc.

Prophet Wutang

Course project for CSE392 (Natural Language Processing)

- > A predictor that can predict the released date of an input Hip-Hop song's lyric, with an accuracy of 60% and recall of 69%. Trained on over 10000 Hip-Hop songs with RNN, worked with TensorFlow, LDA Analysis and Genius API.

Skills

Languages C, JAVA, Python, Javascript(NodeJS), OCaml and more

Others DevOps, Distributed Systems, Operating System, Linux, WebDev and more

Misc. Certified BP debate adjudicator (English) for multiple regional/national debate tournaments