Yiming Mao

maoym99@outlook.com · https://github.com/leafeonia

Education

Nanjing University *Sept. 2017 - June 2021 (expected)*

B.S. in Computer Science and Technology, National Elite Program of Computer Science

- **GPA:** 4.55/5.00 **Average Score:** 91/100 **Rank:** top 5% **TOEFL:** 108 (S24) **GRE:** V162+Q170+4

Professional Experience

Google Information Technology (China) Co., Ltd[1] *July 2020 - Aug. 2020*

Google Software Product Sprint (SPS) Participant

- Collaborated with a team of peers to design and implement a full-stack inventory management flutter app, leveraging various Google Cloud Platform APIs, including App Engine and Datastore.
- Practiced industry best practices such as contributing to open source software using Git and GitHub, conducting code reviews, participating in distributed development, API design and completion.

Tencent Co., Ltd *March 2020 - June 2020*

Game Developer Intern *Shanghai, China*

- Converted game models to convex-hull physics collision models, along with detecting fissures and fixing holes on models automatically. Reduced workload from several hours to a few minutes.
- Used Vtune to measure time bottleneck and analyzed the source code of PhysX physics engine for its algorithmic cause.

Microsoft Software Technology Center Asia *Jan. 2020 - March 2020*

Software Engineer Intern *Suzhou, China*

- Integrated voice recognition feature into Office Android app based on Cortana module.

Research Project & Experience

Configuration Consistency Checker *Aug. 2020 - Oct. 2020*

***Advisor:** Prof. Tianyin Xu* *University of Illinois at Urbana-Champaign*

- Implemented a tool to check configuration inconsistencies in complex systems such as Hadoop with other graduate students, based on information flow tracking infrastucture.
- Detected several types of inconsistency including data type inconsistency, unused parameter inconsistency and case sensitivity inconsistency. Some cases have been officially reported.

Pose accuracy evaluation *Sept. 2019 - Jan. 2020*

***Advisor:** Prof. Gangshan Wu* *Nanjing University*

- Evaluated the accuracy of people doing the same action by understanding the pose information in video.
- Extracted joint information based on openpose library, then used dynamic time warping algorithm to evaluate chronological accumulated loss. The process can extend to 3D situation if joint coordinations are given.

Innovative project "Investment Guide for B&B Based on Machine Learning - Take Nanjing as an Example" *Oct. 2018 - June 2019*

- Effectively predicted the price of flats based on given information such as area, number of rooms and position in Nanjing city, thus giving investors a valuable guide on B&B or flat rent investment.
- Served as the technical backbone of the team, responsible for data crawling, data cleaning and model training.
- The project has been rated as a national key innovation project.

HKUST academic competition *Feb. 2019*

- Participated in a kaggle competition on predicting the running time of sklearn program at HKUST .

Honors & Awards

- **National Elite Program Scholarship** *2018,2019,2020*
- **Excellent Student Cadres Model of Nanjing University** *2019*
- **Gold Award of Nanjing University 16th Algorithm Design Competition** *2019*
- **Finalist of NJU-Vivo-2019-hackathon Competition** *2019*

[1] Due to COVID-19, qualified candidates of the software engineering internship was offered the opportunity for the online SPS program instead.