Yanan Da

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Education

Emory University   *Atlanta, GA*
PhD in Computer Science, **Advisor:** Emily Wall, **GPA:** 3.98/4   *Aug. 2019 - Present*
Southern Illinois University Edwardsville   *Edwardsville, IL*
Master of Science in Computer Science, **GPA:** 3.90/4   *Dec. 2017*
Zhejiang Gongshang University   *Hangzhou, China*
Bachelor of Engineering in Network Engineering, **GPA:** 3.31/4   *June 2015*

Research Projects

VA-supported Bias-aware Graduate Admissions

Emory University   *May 2021 - Jan. 2022*
- Designed and implemented an interactive visualization system to support graduate admissions review process in collaboration with two admission committee chairs.
- The system provides both individual level and group level visualizations of reviewers' interactions with the system to promote reflection and increase awareness of potential biased behavior. **Demo:** `https://graduate-admission-webapp.herokuapp.com/`

Real-time Contact Tracing and Risk Monitoring via Privacy-Enhanced Mobile Tracking

Emory University   *May 2019 - Aug. 2021*
- Optimized the utility of contact tracing with GPS locations protected using Geo-Indistinguishability mechanism.
- Expanded a contact tracing Mobile App for COVID19 with privacy enhancement on user locations using Geo-Indistinguishability mechanism and provides risk monitoring. **Source code:** `https://github.com/Emory-AIMS/react/`

Work Experience

Nuance   *Beijing, China*
Software Engineer   *Mar 2019 - July 2019*
- Designed and developed dialogue use cases for in-car voice assistants.
- Implemented smart windshield feature for a demo car that utilizes the windshield as a projection surface so the driver can interact with the assistant without taking eyes off the road.

Illinois Prescription Monitoring Program   *Springfield, IL*
Database Associate   *May 2018 - Oct 2018*
- Designed and maintained SQL queries for automatic table back up, cleaning and update.
- Conducted data verification and analysis over prescription data tables with billions of records.

Skills

Programming Language	(proficient) Python, C++ (familiar) Java, JavaScript, HTML, CSS
Web Development	Angular, Flask
Data Visualization	D3, Vega-Lite
Databases	MySQL, MS SQL Server
Machine Learning Tools	PyTorch, Scikit-learn

Awards

Outstanding Graduate Student (SIUE Computer Science Department)   *Jan. 2017*
Competitive Graduate Award (SIUE Computer Science Department)   *Aug. 2015*

Publications

Y. Da, R. Ahuja, L. Xiong, and C. Shahabi, "React: Real-time contact tracing and risk monitoring via privacy-enhanced mobile tracking," in 2021 IEEE 37th International Conference on Data Engineering (ICDE). IEEE, 2021, pp. 2729–2732.

Services

Student Volunteer | IEEE VIS   *2021- 2022*