

Yifan Guo

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EDUCATION

GPA: 3.41

The University of Texas at Austin

August 2022 - Aug 2025

Bachelor of Science, Computer Science

The Texas Academy of Mathematics and Science Early College Program at the University of North Texas

Associate of Science, Computer Science

August 2020 - May 2022

SKILLS

Languages: Java, C++, Python, JavaScript, React Native, C, Assembly, SQL, Lua

Technical/Computer Skills: Full-Stack Development, Database Management, Linux, Natural Language Processing, Machine Learning, Oracle Cloud Infrastructure, Django, JSON, Docker, AWS, Git, Object-Oriented Programming

EXPERIENCE & PROJECTS

Oracle Corporation

Software Engineer Intern

- **Flatfile Provisioning**

May 2024 – Aug 2024

- Utilized Oracle Java SDK to develop a microservice that automatically provisions all flatfiles on the Oracle Cloud Infrastructure and the corresponding datatypes
- Supports both real-time and batch processing
- Utilized Docker and Rancher Desktop to deploy function onto Oracle Cloud
- Created Oracle Cloud policies and event rules to automatically invoke function upon change in data storage
- Serves various Oracle customers

TuGo Connect Inc

Co-Founder

- **TuGo Events App**

Sep 2022 – Mar 2024

- Led the development of the TuGo Events mobile application and published on the iOS app store
- Utilized Django and C to develop the backend database, which is hosted on the Amazon Web Services, and utilized React Native to develop the frontend system
- Over 5000 users

- **Event Update Checker**

Feb 2023 – May 2023

- Utilized Python to develop a web scraper that scrapes public events websites hourly for new events and integrated it with our backend database
- Developed algorithms that support over 40 websites

The NLP and Machine Learning Laboratory at the University of North Texas

Research Lead

- **DocTalk**

Jul 2020 – Sep 2022

- Made use of OpenAI, TensorFlow, Python, Stanford Stanza Dependency tree, the NLTK parser, NetworkX, and Graphviz to develop a light-weight dialog engine that outperforms most other graph-based models with a significantly shorter runtime and supports 68 languages
- Tested our projects on 20+ large-scale datasets with 10,000,000+ test cases using TACC's supercomputers and reached comparable or higher performance than state-of-the-art graph-based models on 18 datasets
- Published three papers, two of which as first-author, in the Association for Computational Linguistics (ACL), the 14th International Conference on Flexible Query Answering Systems, and the Association for Computing Machinery (ACM)