

Ding Yang

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EDUCATION

Cornell University

Master of Engineering in Electrical and Computer Engineering

Aug 2023 – May 2024
Ithaca, NY, United States

Tsinghua University

Bachelor of Engineering in Automation

Aug 2019 – Jun 2023
Beijing, China

JOB EXPERIENCE

Software Engineer · WeRide Corp

San Jose, CA, United States

Jul 2024 – Present

- Develop planning and control algorithm for autonomous driving vehicles.
- Integrate third party navigation module in global planner to provide navigation ability.
- Implement lane cruise control function when vehicle is out of navigation.
- Adapt global planner to work with navigation and standard-definition maps from multiple sources.
- Using generative AI to enrich corner-case scenarios, thereby improving the simulation environment's capability to validate algorithms.

INTERNSHIP

Software Engineer Intern · arXiv

Ithaca, NY, United States

Sep 2023 – Jul 2024

- Participated in the maintainance and improvement of arXiv database in the Google cloud platform.
- Built a robust tex parser that extract key informations from tex source files, then generated relationship structures and visualization graphs.

Software Engineer Intern · Airwallex

Shanghai, China

Jun – Sep 2022

- Assessed transaction risks by building analyzing platform and robust data pipelines.
- Developed a python library named Vivqu based on Apache Spark and AWS Deequ to provide metric verification, visualization, defect analysis.

Software Engineer Intern · ByteDance

Beijing, China

Aug – Aug 2021

- Constructed an Operator-Performance dictionary then employed SVM models to fit the existed data and predict performance of new models.

PROJECTS

Information Sharing Website with Authentication

Tsinghua University

Jul – Aug 2023

- Developed a website based on Django to share graduate application and working information within the university, which supports login check and register authentication through school mailbox.
- Generated the main content by MkDocs, a fast static site generator. The web server process was deployed on Unicorn, and the reverse proxy and static content was provided by Nginx.

3D Bin Packing Simulator

Tsinghua University

Sep 2021 – Feb 2022

- Developed a simulator in Python, which provides the interface for researchers to test various packing strategies.