

KE LIN

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📄 [Ke Lin](#)

Education

Tsinghua University

Master of Engineering (M.Eng.) in Software Engineering

Sep. 2022 – present

Peking, China

Tsinghua University

Bachelor in Software Engineering (GPA: 3.69/4.0, Top 20%)

Sep. 2018 – Jun. 2022

Peking, China

Relevant Coursework

- Data Structures
- Database Management
- Artificial Intelligence
- Software Engineering
- Computer Network
- Applied Cryptography
- Natural Language Proc.
- Computer Vision

Experience

Momenta

Backend DevOps Intern

Jan. 2021 – Apr. 2021

Peking, China

- Developed an automated service for scheduling autonomous driving model training tasks based on Kubernetes.
- Utilized Golang to reduce redundant resource consumption and estimated the approximate cost of training sessions.
- Processed the runtime logs of training tasks and stored them into AWS Cloud Storage for visualization.
- Automated the deployment of driving models on AWS and the updating of the K8s image from the upstream repository.

Projects

Farthest Point Sampling Library | *Python, Rust, C++*

Sep. 2023

- Developed a high-performance farthest point sampling library `fpsample` for Numpy arrays.
- Achieved 100× faster than vanilla implementation in pure Numpy for simplified preprocessing of 3D point clouds.
- Published PyPI packages for easy use in x64 platforms to avoid multi-language compilations.

Multilingual Sentence Aligner | *Python*

Jun. 2022

- Developed a `toolkit` for automated multilingual sentence alignments to break long texts into smaller aligned pieces.
- Utilized dynamic programming to align sentences with similar semantic scores and skip irrelevant content.
- Visualized the aligned multilingual sentences in a two-column fashion for fast lookup of certain sentences.

Sports Event Management | *Java*

Dec. 2020

- Designed a sample campus sports event management system to simulate the common functions of event management.
- Incorporated VueJS frontend with SpringBoot backend and MongoDB through RESTful and GraphQL APIs.
- Distributed the application using docker and achieved the throughput of 500RPS under JMeter pressure tests.

Publications

- Yiyang Luo*, [Ke Lin](#)*, and Chao Gu. "Lost in Overlap: Exploring Watermark Collision in LLMs", Under review at ACL 2024.
- [Ke Lin](#), YiYang Luo, et al. "Zero-shot Generative Linguistic Steganography", Submitted to NAACL 2024.
- [Ke Lin](#). "Skipping Scheme for Gate-hiding Garbled Circuits." arXiv preprint arXiv:2312.02514 (2023).
- Yiyang Luo*, and [Ke Lin](#)*. "PISA: Point-cloud-based Instructed Scene Augmentation." arXiv preprint arXiv:2311.16501 (2023).
- Glani Yasir, Ping Luo, [Ke Lin](#), et al. "AyatDroid: A Lightweight Code Cloning Technique Using Different Static Features." 2023 IEEE 3rd International Conference on Software Engineering and Artificial Intelligence (SEAI). IEEE, 2023.

Technical Skills

Languages: Python, Rust, C++, Java, Golang, ReactJS, SQL

Technologies/Frameworks: PyTorch, Ubuntu, ArchLinux, PostgreSQL