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EDUCATION

The University of Chicago   Chicago, IL
Master of Science in Computer Science   Sept. 2023 - Jun. 2024
Bachelor of Science in Computer Science and Mathematics (GPA: 3.7/4.0)   Sept. 2020 - Jun. 2023
Skills: C, C++, Python, R, SQL, Kubernetes, Hadoop, Spark, Pytorch, JavaScript, HTML, PHP, GCP/AWS, Airflow.
ACM-ICPC Programming Contest: 2023 Silver Medal, 2022 Silver Medal.

EXPERIENCE

UCARE lab – inventing AI powered cloud storage   Chicago, IL
ML Researcher   Nov. 2021 – Present
- Building an AI-powered cache (a ML-based prefetching algorithm) to improve storage systems efficiency by **87%**.
- Designed a TensorFlow neural network to for data center I/O schedulers, reducing tail latency by **53%**.
- Wrote a multi-threaded I/O simulator in C that replayed Microsoft's traces, achieving **80-97%** accuracy.

Ovative Group   Minneapolis, MN
Data Engineer   May. 2023 – Aug. 2023
- Enhanced data ingestion speed from **13.31s to 1.17s** by introducing Hive partition to the Airflow pipeline.
- Saved **4.7x** Hadoop storage space by converting traditional CSV/JSON to new Parquet files.
- Optimized a de-duplicate SQL operation by using partitions to cut 128 lines of code into 34 lines.

Seagate Technology   Chicago, IL
Research Engineer   Dec. 2021 – Jan. 2023
- Particiated in writing the C/C++ client code for CORTX cloud stoage project, enabling large-file upload.
- Used C to code a file segmentation algorithm to produce 4KB chunks that enhanced the upload speed by **2x**.
- Implemented a 16-node **Kubernetes** deployment that increased the throughput by **16x**.

TikTok   Beijing, China
Software Engineer   Jun. 2021 – Sept. 2021
- Programmed a lightweight JavaScript Sudoku for touch screens, enhancing the runtime from **140s to 0.02s**.
- Converted arrays to bitmasks, achieving a **9x** reduction in memory consumption.
- Created an HTML-Django scheduling website that saved visitors **10 minutes** of registration time.

Byto Inc.   Chicago, IL
Software Engineer   Jun. 2020 – Jun. 2021
- Developed a Vue-Firebase job site adopted by **53** stores in Chicago.
- Implemented a real-time chatroom with NoSQL database that enhanced user engagement by **30%**.

Projects

IOS App: *Latin Garden*   Jan. 2021 – June. 2021
- Received **4.9 rating** with **122** reviews on App Store**,** React Native, endorsed by Beijing Forestry University.

Enterprise Website: *US-Korea Conference 2022*   Jan. 2022 – Oct. 2022
- Developed an enterprise-level website streamlining paper submission for **123** researchers.

Activities

Video creator: YouTube channel and **Bilibili channel** (5k subscribers).
Courses taken: Operating Systems, Networks, Architecture, Machine Learning, Deep Learning, Statistics.