

Zeyuan (Faradawn) Yang

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EDUCATION

The University of Chicago

Master of Science in *Computer Science* (GPA: 3.8/4.0)

Bachelor of Science in *Computer Science and Mathematics* (GPA: 3.6/4.0)

Chicago, IL

Sept. 2023 - Jun. 2024

Sept. 2020 - Jun. 2023

PROFESSIONAL EXPERIENCE

Ovative Group

Data Engineer

Minneapolis, MN

June. 2024 – Present

- Partitioned a relational database based on frequently accessed fields, reducing execution time from 13.31s to 1.17s.
- Built ETL pipelines that process 10 million ingestions using DBT, Airflow, and Kubernetes with 99.9% uptime.
- Led migration of 32 pipelines from Google Cloud to Databricks, improving speed while ensuring data consistency

Seagate Technology

Software Engineer

Chicago, IL

June. 2022 – Sept. 2022

- Resolved a critical Kafka deployment error by fixing the CNI for Kubernetes, improving delivery timeline by 20%.
- Designed 6 diverse workloads to benchmark their distributed system, revealing 3 major performance bottlenecks.
- Boosted system throughput by 50% through scaling analysis, optimizing the disk-to-node ratio for efficiency.

TikTok

Software Engineer

Beijing, China

Jun. 2021 – Sept. 2021

- Developed a high-performance Sudoku app for touchscreens using JavaScript, reduced runtime from 140s to 0.02s.
- Reduced memory consumption by 9x through converting arrays to bitmasks, ensuring efficient resource utilization.
- Built a full-stack visitor scheduling website using React and Django, saving visitors 10 minutes per appointment.

Byto Inc.

Software Engineer

Chicago, IL

Jun. 2020 – Jun. 2021

- Developed a Vue.js job board platform adopted by 53 stores across Chicago.
- Built a real-time chat feature using NoSQL and Node.js, resulting in a 30% increase in user engagement.

RESEARCH & PROJECTS

Paper: Leveraging AI for Faster Storage Access

Machine Learning Researcher

University of Chicago

Nov. 2021 – June. 2024

- Developed a graph neural network to optimize cache prefetching in multi-user cloud environments.
- Tested on Meta and Microsoft workloads, saving storage access time by 33%.
- Outperformed state-of-the-art machine learning models with a 79.9% improvement in inference time.

IOS App: “Latin Garden”, “Rolling Monsters”, “Flowers Don’t Die”

Jan. 2021 – June. 2021

- Developed an 3 apps that won \$10,000 prize at Ai4Science Hackathon.
- Won 4.9 rating with 6.7k downloads on App Store and was endorsed by Beijing Forestry University.

Enterprise Website: US-Korea Conference 2022

Jan. 2022 – Oct. 2022

- Developed an enterprise-level website streamlining paper submissions for 123 researchers.

SKILLS & INTERESTS

ACM-ICPC Programming Contest: 2023 Regional Silver Medal, 2022 Silver Medal.

Video creator: YouTube and Bilibili (8k subscribers).

Skills: C, C#, C++, Python, Java, JavaScript, Rust, R, SQL, PHP, Pytorch, Tensorflow, AWS, Hadoop.

Courses taken: Operating Systems, Networks, Architecture, Computer Vision, Statistics, Deep Learning.