IAN (HSINYEN) WU

Chicago, IL

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EDUCATION

Northeastern University

Sep 2022 – May 2025

Master of Science in Computer Science, GPA: 3.73/4.0

Boston, MA

 Courses: Algorithm, Object-Oriented Design, Cloud Computing, Computer Networking, Mobile Development, Database Design, Web Development, Machine Learning

WORK EXPERIENCE

Stealth Startup

Oct 2024 - Present

Chicago, IL

Software Engineer Intern

Criicago, il

- Parallelized 1,000+ high-frequency trading simulations, by redesigning monolithic task scheduling system into a
 distributed, cloud-native platform using Rust.
- Designed fault-tolerant master-worker architecture for asynchronous task communication using NATS JetStream, Kubernetes, and AWS S3 storage.
- Ensuring system resilience and continuous operation through leader election with etcd for master node.

Al Roboto Edu May 2024 – Oct 2024

Full Stack Engineer Intern

Los Angeles, CA

- Developed a full-stack solution for an online education startup using Spring Boot, MySQL, React, and Redux.
- Optimized backend APIs, cutting response time by 20% through MySQL query optimization, caching, and
 efficient data handling.
- Improved responsiveness and reducing TTI by 15% by implementing asynchronous Redux state management.
- Automated development workflows with Bash scripts, accelerating release cycles and enhancing team efficiency.

PROJECTS

Al Job Search & Match platform (Python | Open Al | FastAPI)

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- Developed an Al-driven job matching system using OpenAl embeddings and FAISS, improving match accuracy by 40% through vectorized resume-to-job comparison.
- Reduced job processing time by 70%, using multi-threading and Redis caching to eliminate redundant API calls.
- Automated job data processing and structured storage by designing scalable ETL pipeline with FastAPI, Redis, and PostgreSQL.

High-Performance E-Commerce Platform (Java | Spring Cloud | AWS)

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- Architected scalable microservices e-commerce platform using Spring Cloud, AWS RDS, API Gateway and MySQL, delivering end-to-end user journeys from product discovery to checkout completion.
- Improved system throughput by 40%, handling 1,200 messages per second with load balancing and asynchronous processing using Kafka.
- Reduced shopping cart query latency by 87.5% (from 800ms to 100ms) using Redis for high-concurrency caching.

Distributed KV Storage System (Java | Distributed System)

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- Achieved 14,000 QPS for mixed read/write workloads and a P99 latency of 200ms, by developing a distributed Key-Value store using Java.
- Ensured strong consistency with dynamic leader election and log replication, by implementing Raft consensus algorithm.
- Improve stability by reducing master-switching frequency, using Prevote optimization technique.

TECHNICAL SKILLS

Programming Languages: Java, Python, Rust, SQL, Shell, HTML/CSS, JavaScript, TypeScript

Frameworks: Spring Boot, Spring Cloud, React.js, Next.js, Express.js, FastAPI, Redux

Databases: MySQL, PostgreSQL, Redis, MongoDB, etcd **System & Cloud:** Linux, AWS, GCP, Kubernetes, Git

Others: Nginx, Kafka, Agile Development