hloe Luo

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science, Mathematics and Statistics

Cumulative GPA: 3.75/4.0

PROFESSIONAL EXPERIENCE

Rising Wood (Stealth Startup)

Software Engineer Intern

- Developed a highly scalable, fault-tolerant ETL pipeline using Python Django in collaboration with 2 engineers to • aggregate data from multiple sources, including vendor APIs, Reddit, news outlets, using Agile methodologies.
- Built scalable **RESTful APIs** with **Redis** on **AWS ElastiCache**, reducing response time for traders and enhancing • data analysis performance.
- Leveraged AWS EC2, Network Load Balancer (NLB), API Gateway, and MongoDB to achieve 99.99% uptime, • ensuring high availability and fault tolerance of services.
- Implemented a real-time data ingestion service using Kafka and MongoDB, optimizing the aggregation and • processing of popular news topics from social media.
- Optimized data processing with Python asyncio, improving throughput by efficiently handling concurrent I/O-bound • tasks.
- Employed **test-driven development (TDD)** with pytest unittest to ensure code quality, reliability, and maintainability. •
- Integrated Jenkins and CircleCI for CI/CD, streamlining the development process and reducing time to market. •

Black Pine Partners

Private Equity Analyst Intern

Sourced over 50 SMB acquisition targets in cybersecurity and healthcare (equipment and services) with EBITDA • between \$2M and \$10M, managed internal databases, and conducted initial due diligence

Tencent Games

Software Developer Intern

- Developed a scalable and secure RESTful APIs integrating the company's data library with on-premises and cloud systems; implemented robust authentication and role-based authorization mechanisms to ensure secure access.
- Employed Object-Oriented Design principles and applied relevant design patterns, such as Observer and Factory, to • enhance maintainability and scalability.
- Built a WeChat bot for data scientists using Tencent RPC(Remote procedure call) and Python's Selenium, automating data extraction job submissions and improving user experience.
- Utilized Go concurrency, including goroutines and channels, to create a command-line interface that optimized • download task submissions and automated Excel conversions, enhancing system efficiency.

SELECTED PROJECT

Inventory Management System Project

Independent Developer

- Engineered a scalable Java-based Inventory Management System using Spring Boot, MySQL, and Hibernate, • implementing **RESTful APIs** for product information management.
- Improved system performance and reliability with asynchronous processing using Java's CompletableFuture, and conducted unit and integration testing with JUnit and Mockito
- Deployed the application in Docker containers on Apache Tomcat, automated CI/CD with Jenkins, and established • logging with SLF4J/Logback and real-time monitoring with Prometheus and Grafana(Quality of Service QOs).

MapReduce & Search Engine Project

Student Developer

- Designed and deployed scalable, distributed search engines using algorithms like PageRank and TF-IDF, leveraging • MapReduce for efficient data processing and creating segmented inverted indexes.
- Implemented scalable RESTful APIs for index management and query processing, utilizing SQL databases to enhance • data retrieval and scalability.
- Developed front-end interfaces with JavaScript and React, integrating real-time search features. •

SKILLS

C++, Python, JavaScript, Java, Go, SQL, MATLAB, Flask, Django, Spring Boot, React, Vue.js, Node.js, Spring Cloud, MySQL, Express.js, MongoDB, DynamoDB, Redis, Cassandra, Git, AWS EC2, RDS, ElastiCache, Kinesis, S3, SQS, Kafka

San Francisco, CA

Mar 2024 – May 2024

Shenzhen, China

Jun 2023 – Aug 2023

Ann Arbor, MI

Jan 2024 – Apr 2024

Ann Arbor, MI

Sep 2023 – Dec 2023

San Francisco, CA Jan 2024 – Aug 2024

Ann Arbor, MI Expected May 2026