Hongzheng Li

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Education

University of Wisconsin - Madison

Bachelor of Science in Computer Science; GPA: 4.0/4.0

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript, Java, Swift, HTML, CSS
Tools: Git, GitHub Actions, Docker, Vim, CMake, GDB, Google Test Suite, UML, JUnit
Databases & Distributed Systems: PostgreSQL, Cassandra, HDFS, Spark, Kafka
Frameworks & Libraries: React, React Native, gRPC, Flask, OpenMP, PyTorch, pandas, NumPy, Matplotlib

EXPERIENCE

April 2024 – February 202
Merced, C.
ulti-node systems using $C++$ a multi-node machine
nitor and analyze system performance
November 2024 – January 202
Clear Water Bay, Hong Kon
atforms
June 2024 – July 202
Shanghai, Chin
raphs optimizing daily staffing operations

GOPHER Delivery Simulation System | C++, Typescript, Docker, Git | View Demo | February 2024 – May 2024

- Built a multi-entity simulator in C++ using Composite Factory
- Extended functionality of entities using the **Decorator** pattern
- Implemented the **Observer** pattern for real-time notifications, sending JSON events to **TypeScript** front end
- Containerized the environment with **Docker** for uniform builds and deployments
- Employed **CI/CD** pipelines to automate testing and deployment
- Practiced \mathbf{Scrum} and used \mathbf{Git} for collaborative development and version control

BusTub DBMS Buffer Pool Manager | C++, Git

- Built a thread-safe **Buffer Pool Manager** for efficient memory-disk page management
- Implemented the **LRU-K** algorithm to optimize page eviction
- Designed a **Disk Scheduler** for asynchronous I/O, improving read/write efficiency
- Used **RAII** and move semantics for exception-safe resource management
- Applied synchronization and fine-grained latches to enhance concurrency

HONORS

- Dean's List, UW-Madison, College of Letter & Science, Fall 2024
- Dean's List, UMN, College of Science and Engineering, Fall 2023, Spring 2024
- Lifetime Member, UMN Chapter, Tau Sigma National Honor Society
- Academic Perfection, University of California, Davis Global Study Program, 2023 2024

Madison, WI Expected May 2026

December 2024