Zhongyin Wang

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EDUCATION

University of Illinois Urbana-Champaign *Aug 2025 - May 2027*

- **Master in Information Management (GPA:4.0)**

Related Courses: *CS 411-Database systems, CS 427-Software Engineer I, IS 515-Information Modeling, IS 507-Data, Statistical Models and Information.*

Zhejiang University *Sep 2020 - Jul 2024*

- **Bachelor in Civil Engineering (Focus: Smart Transportation & Systems) (GPA:3.6)**

Related Courses: *Data Structures and Algorithm Analysis, Fundamentals of Computer Science, C Programming, Data Science (Python and Tableau), and Engineering Project Management, etc.*
Awards: *The University Student Structural Design Competition Second Prize, Zhejiang University Excellent Graduate*

SKILLS & ACTIVITIES

Languages: Java, Python, C/C++, SQL, JavaScript, Golang
Backend & Frameworks: Spring Boot, RESTful APIs, Spring Events
Testing & Automation: JUnit, Mockito, Pytest, Web Automation (RPA), DOM Analysis
Databases & Tools: MySQL, PostgreSQL, Redis, Neo4j, Docker, Git, Linux, AWS; PyTorch.

EXPERIENCE

Baidu, Inc. | Python, Pytest, REST APIs, SQL, Linux **Beijing, China**
Software Engineer Intern (NLP Infrastructure) *Apr 2024 - Jul 2024*

- Engineered **a modular benchmarking infrastructure** in **Python** to evaluate **50+ LLMs**, supporting concurrent API and local deployments across large-scale model evaluations.
- Automated **performance profiling workflows**, reducing manual evaluation time by **35%** through systematic measurement of token-level latency and throughput.
- Optimized backend data pipelines and **engineered** automated test suites using **Pytest**, ensuring 95%+ experimental reproducibility for LLM agent architectures across cross-functional teams.

YiTong Network Co., Ltd. | SQL, Python, JavaScript, RPA **Hangzhou, China**
Software Engineering Intern (Automation & Data Systems) *Jan 2024 - Mar 2024*

- Improved operational throughput by **40%** by engineering resilient RPA workflows for a dynamic Web3 platform, analyzing complex **DOM structures** and asynchronous network requests to reliably automate multi-step operations.
- Strengthened end-to-end data integrity for analytics by implementing automated **SQL/Python** data preparation and validation checks, reducing manual debugging and improving dashboard consistency.
- Resolved critical automation pipeline bottlenecks by architecting robust logging and exception-handling mechanisms, improving workflow success rate to over **95%**.

PROJECTS

AI-Powered Student Schedule Planner | Java, Spring Boot, PostgreSQL, Redis *Mar 2026 - Present*

- Architected a scalable backend system using **Spring Boot** and Java, designing **RESTful APIs** for user authentication, course catalog management, and dynamic schedule generation.
- Integrated an **LLM-based** parsing engine (via REST APIs) to process unstructured syllabus PDFs, automatically extracting key assignment deadlines and exam dates into a relational database.
- Engineered a scheduling algorithm to detect time conflicts and generate optimized weekly study plans, utilizing **Redis caching** to store frequently accessed course data to **ensure low-latency API responses and system scalability**.

Enterprise Compliance & Rewards Platform | Spring Boot, MySQL, Neo4j, Redis *Sept 2025 – Jan 2026*

- Engineered an enterprise-grade backend using **Spring Boot**, integrating MySQL for ACID transactions and a **Neo4j** graph database to resolve complex, multi-layer reward rule mapping.
- Mitigated high-concurrency bottlenecks by implementing a **Redis Cache-Aside** pattern for hot metadata and orchestrating asynchronous synchronization via **Spring Events**, reducing primary database load by 30%.
- Architected resilient RESTful APIs with comprehensive JUnit and Mockito test coverage, containerizing the application stack with **Docker Compose** to streamline deployment pipelines.

Smart Tunnel Dynamic Emergency Response System | Java, Python, MySQL, YOLO *May 2022 - May 2023*
Project Member (Supervisor: Prof. Ke Wu)

- Engineered Java-based backend services to continuously ingest real-time computer vision data (**YOLO**), ensuring high-throughput data processing for emergency event recording.
- Optimized the **MySQL** database schema for time-series sensor data, improving historical query performance by **25%** through strategic indexing and SQL query refactoring.