Zhiyuan Wang

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kassakingzyw.com/

in Zhiyuan Wang

Education

University of Waterloo

Sep 2020 - Aug 2025

4th Year Bachelor of Mathematics, Major in Computer Science & Statistics (Co-op)

Waterloo, ON

- Cumulative Math and CS courses GPA: 90%
- · Courses: Algorithms, Machine Learning, Operating System, Object-Oriented Programming

Work Experience

Software Engineer Intern | **Ripple**

Toronto, ON | May - Aug 2024

Technologies: Python, C++, Kubernetes, Blockchain

Incoming RippleX SWE Intern

Software Engineer Intern | MORSE Consulting

Toronto, ON | Jan - Apr 2024

Technologies: Python, AWS EC2, Nginx, Machine Learning

- Designed a content scraping system from scratch to allow scheduled data scraping and auto-correction on invalid scraped data with OpenAl API. This saves 1 hour of the developer's time on refreshing data each week
- Implemented new backend APIs and optimized data processing algorithms using Python. The code improved pre-processing efficiency by 300%

Software Engineer Intern | Huawei Technologies Canada Co.

Markham, ON | May - Aug 2023

Technologies: C++(LLVM), Python, Docker, VM

- Analyzed and optimized Bisheng LLVM compiler, including conducting regression tests on CPU performance assessment, and optimizing C++ source code on SLP vectorization. This reduced CPU perf count on benchmark function by 20%
- Generated Python and bash scripts to integrate new benchmarks into existing workflows and make testing easier. The scripts save 2 hours of developer's time each week
- Streamlined codebase by eliminating redundancy by breakpoint testing, resulting in a 300-line code reduction

Web Developer Intern | Horizn

Toronto, ON | Sep - Dec 2022

Technologies: PHP(Laravel), MySQL, React, AWS S3, Jenkins

- Revamped legacy React code by crafting reusable, scalable, and mobile-responsive components that are now utilized throughout the platform. This initiative enhances code maintainability and significantly reduces time spent resolving component-related issues
- Optimized Laravel code by seamlessly integrating existing database operation methods, resulting in a 40% reduction in required migration code

Projects

Al-Driven InsightCraft | React, Springboot, RabbitMQ, Redis, PostgreSQL, Restful API, Full-Stack | 🖸 Github



- Developed an intelligent data analysis platform leveraging Springboot and React (Ant Design and TypeScript). Users can send raw Excel data and specific analysis requests to the platform, and then receive visual data charts and analysis from AIGC (Al-Generated Content). This streamlines the process for data analysts on EDA
- Utilized OpenAl APIs and encapsulated user-input data and analysis requests with customized Prompts. Generated JSON configurations for ECharts and analysis conclusions, delivering results for frontend rendering
- Customized I/O-intensive thread pool and task queue (by JUC and RabbitMQ), achieving concurrent execution and asynchrony for AIGC, enabling immediate frontend responsiveness upon task submission and improving user experience

Technical Skills

Languages: C++, Python3, Racket, React(Next.js), JavaScript(Node.js), Java(Springboot) Tools: Linux, Git, MySQL, Redis, MongoDB, AWS, Docker, Nginx, Jenkins, Jira, Unity