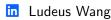
Ludeus Wang

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kassakingzyw.com/



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: Algorithm, Machine Learning, Operating System, Object-Oriented Programming

Work Experience

Software Engineer Intern | Ripple

Toronto, ON | May - Aug 2024

Technologies: Python, C++, BlockChain

Incoming

Software Engineer Intern | MORSE Consulting

Toronto, ON | Jan - Apr 2024

Technologies: Python, React, MySQL, AWS, Machine Learning

- Integrated new backend APIs and optimized data processing algorithms using Python. Improved pre-processing time from 50 seconds to 20 seconds
- Designed and optimized Frontend for drug info management pages using the React Ant Design UI library. Helped
 the business team by improving product approval speed by 15%

Software Engineer Intern | Huawei Technologies Canada Co.

Markham, ON | May - Aug 2023

Technologies: C++(LLVM), Python, Docker, Git, 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, Git, AWS S3, MAMP, Jenkins, Jira

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