






# Ludeus Wang

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## 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

### AI-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** (AI-Generated Content). This streamlines the process for data analysts on EDA
- Utilized **OpenAI 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(TypeScript, Node.js), C#

**Tools:** Linux, Git, MySQL, Redis, MongoDB, AWS, Docker, Nginx, Jenkins, Jira, Unity