

## WORK EXPERIENCE

### Full Stack Developer

Jan 2022 - Current

Karl W. Richter Ltd.

Toronto, Canada

- Developed and implemented a warehouse management system that streamlined inventory management processes, increasing efficiency by 30% and reducing errors by 20%. Collaborated with cross-functional teams to gather requirements and user feedback, and leveraged agile development methodologies to ensure timely delivery of key features and functionality.
- Designed and developed user-friendly front-end interfaces for web and mobile applications using Vue3, Kotlin, and Swift. Implemented complex UI features and integrated third-party libraries and APIs to enhance app functionality. Collaborated with cross-functional teams to ensure seamless integration with back-end systems.
- Designed and developed robust back-end systems using Java Springboot, implementing RESTful APIs and optimizing database queries to improve performance. Implemented security features and data validation checks to ensure data integrity and confidentiality. Collaborated with cross-functional teams to ensure seamless integration with front-end systems.
- Repaired and maintained warehouse hardware scanners and devices, troubleshooting software and hardware errors to minimize downtime and ensure smooth operations. Worked with vendors and suppliers to source replacement parts and maintain inventory levels.
- Configured and maintained internet connectivity and software systems, troubleshooting network connectivity issues and implementing security protocols to ensure data confidentiality and integrity. Optimized server settings and software configurations to improve performance and ensure seamless operations.
- Researched and evaluated open-source tools and software solutions to optimize office workflows and increase productivity. Deployed selected tools and provided training and support to staff to ensure smooth adoption and utilization. As a result, helped all employees to improve efficiency and streamlined office processes, leading to a 15

## SKILLS

### Technical Skills

**Back-end:** Java Spring-Boot

**Front-end:** Vue.js, UX/UI, SEO

**Mobile App Development:** Android, iOS

**Operating Systems:** Unix/Linux

**Scripting Languages:** PHP, Python, C#/ASP.NET

**Database Management:** Design, Programming, Administration

**Other Skills:** Version Control (Git), Markdown, Regular Expressions (Regex), JFrame GUI, JDBC, TCP/IP, TCPDump, IDEs (IntelliJ IDEA, Eclipse), Icon/Picture Design

### Languages

English(Fluent), Cantonese(Intermediate), Mandarin (native speaker)

### Others

Self-starter, Self-directed, Problem-solving, Leadership, Teamwork ability, Debugging ability.

## PROJECT EXPERIENCE

### Personal Blog

2017 - Current

Static Pages/ PHP Pages

- Created a comprehensive blog to provide practical tips and techniques for effective studying and working.
- Developed the blog using HTML, CSS, and JavaScript and transitioned to using PHP for enhanced functionality and interactivity.
- Optimized the blog for search engines with effective SEO techniques, integrated a Content Delivery Network (CDN) for faster page loading times, utilized various APIs to provide dynamic content and integrated web crawling capabilities to gather information from other websites.
- Implemented online applications and custom frameworks to streamline the user experience, merged existing apps and features to create a cohesive platform.
- Through the development process, honed problem-solving skills and became proficient in using web development tools, resulting in a robust, user-friendly blog.

### Movie Subtitles Searcher

2020

Java

- Searched, crawled and decoded movie subtitles from the Internet and pronounced subtitles to allow users to learn languages.
- Used Jsoup to search and crawl movie subtitles from the Internet.
- Used I/O Streams to download subtitles and Regex to decode it.
- Pronounced subtitles using API to allow users to learn languages.
- Self learnt how to use Jsoup to parse and fetch information from HTML, use Regex to fetch information from complex text and the interaction between software and website.

## **Anonymous Chat Room**

2019

*Java*

- Bidirectional encryption chatroom, the server-side has word filter, blacklist, kick IP etc.
- Client used Thread and Socket to communicate with a server for receiving and sending messages.
- Server inspected if IP and messages are in blocklists.
- Automatically decodes after receiving and encrypts the message before passing in server.
- Self-learnt handshake between clients and server, more detailed socket application as well as how to combine other wheels into the project, in other to make bidirectionally communication more safety.

## **Education Assistant**

2018

*Java*

- An integration tool, which included citation word document generator, dictionary as well as paraphrase etc.
- Translation: A system clipboard monitor with switch and shortcuts that monitors the information from the clipboard. Automatically translated information to target languages and showed on a floating window.
- Multi Thread downloader, APA format generator, Citation generator, etc.
- Self-learnt JFrame GUI and how to search for suitable methods to implement features.

## **EDUCATION**

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### **Computer Programming (Co-op Stream)**

*Humber College Institute of Technology & Advanced Learning*

Jan 2020 - Aug 2022

Award: Dean's Honour List for all semesters.

### **Columbia International College**

*Hamilton, Ontario, Canada*

Sept 2018 - Sept 2019