

# Kyle Meng

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## Skills

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**Programming Languages:** Java, Python, C/C++, C#, JavaScript, TypeScript, HTML5, CSS3, SQL  
**Frameworks & Technologies:** React, RESTAPI, Vue.js, Spring Boot, Hadoop, ElasticSearch, Selenium, Linux,  
**Tools & Platforms:** Vite, Maven, Docker, Putty, XShell, VMware, Vim, Git, JIRA, LaTeX  
**Databases & Caching:** MySQL, PostgreSQL, Hive, HBase(NoSQL), Redis

## Experience

### Full-Stack Engineer (Volunteer)

*Remote, Canada*

*Suogogo Technologies LTD.*

*July 2025 – Present*

- Developed a comprehensive admin web portal using **React 19**, **TypeScript**, and **Vite**, featuring complete order management system with **advanced filtering, search, pagination, and CSV export** capabilities, plus detailed order views with status tracking, logistics monitoring, and customer feedback management
- Architected and **implemented reusable UI components** including, **date pickers, multi-select filters, List Component, and status tags**, establishing a comprehensive component library that improved development efficiency and maintained design consistency across the application
- Built scalable frontend architecture with **i18n internationalization** support (English/Chinese), mock service layer for **API simulation**, **TypeScript type safety**, **TailwindCSS** styling system, and **React Router** navigation, following modern development practices including **ESLint** configuration and structured **Git workflow**

## Projects

### Portfolio Website

*React, TypeScript, Three.js*

- Developed a desktop-style personal website with **React & TypeScript** frontend and **Spring Boot** backend architecture, implementing responsive design with **TailwindCSS** to ensure optimal display across all devices
- Simulating an operating system interface with file managers, project detail windows, and email composition functionality for an intuitive and creative user experience
- Integrated 3D effects and animations utilizing **Three.js** and **GSAP** libraries to implement particle backgrounds and smooth transitions, incorporating React Three Fiber framework for personal 3D model displays to enhance visual appeal and site uniqueness

### Distributed Campus Network Search Engine

*Java, Hadoop, MapReduce*

- Engineered automated web crawler using **Python & Selenium**, boosting data collection efficiency by 20%
- Configured a **distributed Linux server environment on VMware**, enhancing processing speed
- Optimized data indexing and retrieval by leveraging **Hadoop's MapReduce** framework, improving processing speed by **30%**.
- Doubled search efficiency by storing **TF-IDF index tables** in **HBase**, reducing query time

### iThink Creative Investment Platform

*Java, Springboot, JavaScript*

- Architected a multi-platform social investment platform for idea sharing and trading, integrating a **web app, Android app, and WeChat Mini-Program** with a unified **MySQL** database
- Implemented **Spring Boot-powered** back-end services, ensuring high performance and scalability
- Built a dynamic front-end using **JavaScript** and **LayUI**, improving usability and visual appeal

## Education

### University of Ottawa

*Sep. 2022 – May. 2024*

*Master of Electrical and Computer Engineering* GPA: 9.44/10.0

*Ottawa, ON*

- Relevant Courses:** Cloud Infrastructure and Technologies, Software Defined Network and Cloud

### Southwest Petroleum University

*Sep. 2017 – Jun. 2021*

*Bachelor of Software Engineering* GPA: 3.49/4.0

*Chengdu, China*

- Excellent Graduation Design Award & 4 Scholarships for Excellent Student
- Relevant Courses:** Big Data Processing, Software Project Management, Operating System