

# Bowen Tao

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<https://github.com/taobowen>

## EDUCATION

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**Lakehead University** Sep 2024 - Aug 2026  
Computer Science Master Thunder Bay

Relevant Courses: Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, etc.

**Central South University** Sep 2016 - Jun 2020  
Intelligence Science and Technology (AI) Bachelor Changsha, China

Relevant Courses: Speech Signal Recognition, Pattern Recognition, Computer Graphics, etc.

## SKILLS

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- **Programming Languages:**

JavaScript, TypeScript, Python.

- **Familiar Framework & Skillset:**

- Experienced with React & Vue, Webpack & Vite, with extensive experience independently leading the development of large-scale web projects.
- Skilled in developing Chrome browser extensions.
- Experienced with Puppeteer, able to implement complex automated testing through scripting.
- Proficient in Node.js and familiar with popular backend frameworks like Next.js.
- Skilled in MySQL, with experience in business modeling.
- Familiar with message queues, with design and implementation experience, and a solid understanding of their mechanisms and principles.

## PROFESSIONAL EXPERIENCE

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**Alibaba – Ali Cloud** Apr 2022 - Jun 2023  
Full-stack Engineer Apsara Stack Beijing, China

Responsible for the frontend page development of the same-city disaster recovery product line's web console, as well as the development of foundational infrastructure related to automated testing within the frontend team.

**Alibaba – Olympics Team** Aug 2021 - Apr 2022  
Front-end Engineer Olympics Enterprise Department Beijing, China

Responsible for the development and maintenance of the Winter Olympics VIP Ticketing System, implementing the ticketing system requirements from the Olympic Committee and VIP clients, and ensuring the system's stable operation during the Winter Olympics.

**Sangfor Technologies Inc.** Jul 2020 - Jul 2021  
Front-end Engineer Enterprise Distributed Storage Changsha, China

Responsible for the development of projects such as the distributed storage management platform and cloud desktop operation platform, and contributed to the construction of the product line's business component library.

## PROJECTS

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**Automated Inspection System (Alibaba - Ali Cloud)** Jun 2022 - Jun 2023  
Core Designer and Developer Beijing, China

- Enhanced usability and consistency for 100+ products and 1,000+ pages by developing backend services with Next.js and Puppeteer for automated performance testing, design validation, and network checks.
- Designed a configurable task scheduling system using message queues, optimizing inspection speed by 150% and reducing 1,000+ page detection time from 20 to 8 hours. Achieved balanced CPU and memory utilization across four virtual machines.
- Implemented a master-subtask architecture for real-time task monitoring, integrating notifications via an enterprise messaging API to streamline task tracking and updates.

**Page Resource Monitoring Plugin & Winter Olympics Product Demo Client** Dec 2021 - Apr 2022  
Core Developer Beijing, China

- Developed a Chrome extension to monitor fetch/XHR requests and user interactions, enabling detailed capture of page designs and business scenarios for offline demonstrations.
- Utilized Electron to build a lightweight demo client with local on-demand access to static resources, synchronized via object storage services, reducing server resource dependency and enabling seamless offline presentations.