

Zhangwenchi Li

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EDUCATION

McMaster University

MEng, Computing and Software (Co-op)

Hamilton, ON

May 2025 - April 2027

Queen Mary University of London

BEng, e-Commerce Engineering with Law

Beijing, China

Sep 2020 - June 2024

Beijing University of Posts and Telecommunications

BMgmt, e-Commerce Engineering with Law, GPA: 3.7/4.0

Beijing, China

Sep 2020 - June 2024

EXPERIENCE

Software Engineer Intern

Jan 2025 - Apr 2025

Shopee

Beijing, China

- Contributed to both frontend and backend-for-frontend (BFF) projects of Shopee's A/B test configuration platform, enabling **30+ business teams** across the company to make data-driven decisions.
- Developed a general-purpose table configuration component **standardized across the team**, featuring searching, multi-selection, drag-and-drop reordering and field disabling.
- Migrated three web pages to a new Next.js codebase to enable Server-Side Rendering, reducing First Contentful Paint (FCP) by **61.2%** on average.
- Built an LLM-based suggestion feature that generates metric explanations and configuration guidance by incorporating platform-specific business context and existing experiment setups, helping new users better understand metrics and reduce misconfiguration.
- Implemented an automatic email notification module for NestJS-based BFF project, saving the team **3+ hours** every week from manual email notifications.

PROJECTS

Eelbrain-BIDS

May 2025 - Aug 2025

- Migrated the input dataset format of Eelbrain (Python library for neuroscience with **~700K downloads**) to BIDS standard by redesigning the path templating mechanism, featuring state management, file globbing and optional fields handling.
- Refactored legacy code into modular components using SOLID design principles to improve maintainability.
- Developed unit and integration tests in pytest and automated CI/CD workflows using GitHub Actions, raising test coverage from **65% to 90%**.
- Reduced CI workflow execution time by **~2 mins** by caching datasets to avoid repeated downloads.

Campus Second-hand Marketplace

Jul 2024 - Dec 2024

- Built backend RESTful APIs for a second-hand marketplace platform using Spring Boot and MyBatis, including product CRUD, order processing and user account management.
- Integrated OpenAI API to generate product descriptions by combining input keywords and images with similar historical listings as contextual prompts, improving content relevance and consistency.
- Implemented centralized logging, exception handling, and role-based access control using Spring AOP, reducing code duplication and saving **~5 hours** of development effort per iteration.
- Integrated Redis caching for trending items with TTL-based expiration and cache invalidation on update, reducing database load and improving average API response time by **~200ms**.

Visualization of Simple C Programs

Jan 2024 - Apr 2024

- Built a basic C parser in JavaScript to convert C code into an abstract syntax tree (AST) in JSON format.
- Designed and implemented a mapping from AST nodes to GraphML elements, converting the AST into a flowchart in GraphML format for visualization.

SKILLS

Programming Languages: TypeScript, Java, Python, C, C#, HTML/CSS, SQL

Frameworks: React, Tailwind CSS, Vite, Next.js, Express, NestJS, Spring, MyBatis, MySQL, MongoDB, Redis, Numpy, Pandas, PyTorch

Tools: Git, Github Actions, pytest, Azure, Kubernetes, Docker, Nginx, Linux, Agile