

# Zhangwenchi Li

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## EDUCATION

<b>McMaster University</b>	Hamilton, ON
<i>MEng, Computing and Software (Co-op)</i>	May 2025 - April 2027
<b>Queen Mary University of London</b>	Beijing, China
<i>BEng, e-Commerce Engineering with Law</i>	Sep 2020 - June 2024
<b>Beijing University of Posts and Telecommunications</b>	Beijing, China
<i>BMgmt, e-Commerce Engineering with Law, GPA: 3.7/4.0</i>	Sep 2020 - June 2024

## EXPERIENCE

<b>Software Engineer Intern</b>	Jan 2025 - Apr 2025
<i>Shopee</i>	Beijing, China
<ul style="list-style-type: none"><li>Contributed to both frontend and backend-for-frontend (BFF) projects of Shopee's A/B test configuration platform, enabling <b>30+ business teams</b> across the company to make data-driven decisions.</li><li>Developed a general-purpose table configuration component <b>standardized across the team</b>, featuring searching, multi-selection, drag-and-drop reordering and field disabling.</li><li>Migrated three web pages to a new Next.js codebase to enable Server-Side Rendering, reducing First Contentful Paint (FCP) by <b>61.2%</b> on average.</li><li>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.</li><li>Implemented an automatic email notification module for NestJS-based BFF project, saving the team <b>3+ hours</b> every week from manual email notifications.</li></ul>	
<b>PROJECTS</b>	

<b>Eelbrain-BIDS</b>	May 2025 - Aug 2025
<ul style="list-style-type: none"><li>Migrated the input dataset format of <a href="#">Eelbrain</a> (Python library for neuroscience with ~<b>700K downloads</b>) to <a href="#">BIDS</a> standard by redesigning the path templating mechanism, featuring state management, file globbing and optional fields handling.</li><li>Refactored legacy code into modular components using SOLID design principles to improve maintainability.</li><li>Developed unit and integration tests in pytest and automated CI/CD workflows using GitHub Actions, raising test coverage from <b>65% to 90%</b>.</li><li>Reduced CI workflow execution time by <b>~2 mins</b> by caching datasets to avoid repeated downloads.</li></ul>	

<b>Campus Second-hand Marketplace</b>	Jul 2024 - Dec 2024
<ul style="list-style-type: none"><li>Built backend RESTful APIs for a second-hand marketplace platform using Spring Boot and MyBatis, including product CRUD, order processing and user account management.</li><li>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.</li><li>Implemented centralized logging, exception handling, and role-based access control using Spring AOP, reducing code duplication and saving <b>~5 hours</b> of development effort per iteration.</li><li>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 <b>~200ms</b>.</li></ul>	

<b>Visualization of Simple C Programs</b>	Jan 2024 - Apr 2024
<ul style="list-style-type: none"><li>Built a basic C parser in JavaScript to convert C code into an abstract syntax tree (AST) in JSON format.</li><li>Designed and implemented a mapping from AST nodes to GraphML elements, converting the AST into a flowchart in GraphML format for visualization.</li></ul>	

## SKILLS

<b>Programming Languages:</b> TypeScript, Java, Python, C, C#, HTML/CSS, SQL
<b>Frameworks:</b> React, Tailwind CSS, Vite, Next.js, Express, NestJS, Spring, MyBatis, MySQL, MongoDB, Redis, Numpy, Pandas, PyTorch
<b>Tools:</b> Git, Github Actions, pytest, Azure, Kubernetes, Docker, Nginx, Linux, Agile