

Jack Wang

Computer Science @ Waterloo | Browser Agents | Applied AI | Full-stack
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EDUCATION

Bachelor of Computer Science, University of Waterloo
Waterloo, ON

Sep 2024 - Apr 2029

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, HTML, CSS, PostgreSQL

Frameworks: Vue.js, Vue-ECharts, Spring Boot, PyTorch, Playwright

Tools: Git, GitHub, Docker, Linux, WebMCP, BrowserGym

EXPERIENCE

Co-op Researcher, Web Technology Lab, Huawei Technologies
Markham, ON

May 2026 - Aug 2026

- Built WebMCP tool suites for **9+ sites**, exposing site actions as navigator.modelContext tools callable by LLM agents.
- Engineered a Python evaluation harness with a site-injection proxy and automated tool verification across Docker-hosted sites.
- Built and debugged browser-agent infrastructure for a WebArena A/B study covering **5 modes** and multiple models.
- Diagnosed a dispatch bug behind **111 failures across 36 tasks** and cut the element-ID error rate from **38% to 18%**.

Full Stack Engineer, Innovation AI
Remote - San Jose, USA

May 2025 - Aug 2025

- Developed an interactive Vue-ECharts world map for geographic visualization.
- Implemented asynchronous PDF preview with real-time rendering feedback and responsive error handling.
- Built authenticated balance workflows and a PostgreSQL-backed store.
- Engineered a transaction-safe cart that persisted selections and debited user balances in real time.

PROJECTS

Chinese-English Transformer, Amazon Externship
PyTorch, SentencePiece, Python

Jan 2025 - Apr 2025

- Built an encoder-decoder Transformer and processed **100,000+ entries** for training, evaluation, checkpointing, and beam-search inference.
- Compared neural architectures and classical baselines to guide model tuning.

Biquadris - Multiplayer Tetris, Course Project
C++, X11, OOP

Dec 2025

- Built a competitive 1v1 game with decoupled text and X11 interfaces.
- Used Decorator and Observer patterns for runtime abilities and synchronized views.

WeChat AI Reply Agent, Open Source
Python, Playwright, Ollama, Win32 API

Jun 2026

- Drafts replies from screenshots with a vision-language model while keeping final sending under human control.
- Supports local Ollama and ChatGPT Web backends driven over CDP.