

Lei Wu

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Experience

8090 Solutions Inc.
Member of Technical Staff

Toronto, ON
May 2026 - Aug 2026

- Built **Langfuse** tracing for Claude Code, Cursor, and Codex, fixing a **96×** skill-usage undercount
- Shipped a production observability stack using **OpenTelemetry**, **AMP**, **k6**, and **Neon**
- Shipped 30+ **Tiptap/ProseMirror** PRs for tracked changes, media, linked chips, tables, and release fixes

Shopify
AI Product Data Science Intern

Toronto, ON
January 2026 - April 2026

- Built River, a **Slack-managed** coding-agent platform that provisions sandboxed NixOS environments through **ACP**
- Instrumented per-user AI token spend, BigQuery costs, and PR ownership across River agent sessions and GitHub activity
- Built River's self-improvement loop to turn failed agent sessions into reusable skills and reduce manual tuning
- Shipped an AI leaderboard used by **1K+** DAUs and Shopify Wrapped to **10K+ staff with 90% utilization**
- Cut low-quality AI project updates by **50%** using GEPA based prompt optimization and LLM-judge A/B test

Shopify
Software Engineering Intern

Toronto, ON
May 2025 - December 2025

- Cut **p50 import latency 33% (6s→4s)** by migrating legacy services at 500M+ daily **GraphQL** mutation scale
- Cut **CSV deletion latency 92% (60s→5s)** by batching **Rails** operations and eliminating N+1 queries
- Saved **1,000+** engineering hours by automating manual top-hatting workflows in **Python**
- Interviewed **10+** merchants, identifying **3** high-impact improvements to AI-driven personalization and CSV error reduction

CIBC
Project Management Intern

Toronto, ON
Sept 2024 - April 2025

- Reconciled **\$1M+** in weekly project financials and streamlined cross-team delivery using **JIRA** and **Confluence**

Canadian Border Service Agency
Data Analyst Intern

Ottawa, ON
May 2024 - Aug 2024

- Built **real-time analytics pipelines** processing **100M+** warehouse records daily and delivered interactive **Power BI** dashboards for client teams

Carleton University
Web Development Teaching Assistant

Ottawa, ON
Fall 2023 & Fall 2025

- Delivered tutorials and office hours for **300+** students across 2 terms, teaching **Node.js**, **Express**, **WebSockets**, and **JavaScript**

Projects

Valorant Round Win Predictor Agent 🤖

Dec 2025

- Built a real-time Valorant win-probability system using OpenCV-extracted broadcast state and a classification model that achieved **77%** round-outcome accuracy
- Automated match-log ingestion, feature engineering, and train/test dataset generation; benchmarked predictions against AWS Spike Defuse

Clean Vision - Computer Vision & Machine Learning to Sort Waste 🗑️

Mar 2023

- Winner among 100+ teams at Hack the Hill **Maker Con Challenge**, successfully developing an app that sorts through waste
- Built Clean Vision, an AI-powered waste classification app, by leveraging **real-time, event-driven pipelines** with **WebSockets** and computer vision models (**OpenCV** and **Tensorflow**) in **Python** to mirror large-scale observability systems

Community & Leadership

Carleton University Blueprint
VP Projects

Ottawa, ON
Sept 2024 - Aug 2025

- Led five developers across two nonprofit products: a **Mapbox** based hospital wait-time tool and a **React/Supabase/Stripe** membership platform while establishing **CI/CD**, **linting**, and engineering standards

Skills

Programming	Python, Ruby, SQL, TypeScript, JavaScript
Data	GraphQL, PostgreSQL, MongoDB, MySQL, BigQuery
Frameworks & Libraries	Rails, React, Next.js, Flask, FastAPI, Node.js, Vite, LangChain
AI & Infrastructure	Langfuse, OpenTelemetry, Amazon Managed Prometheus, k6, Docker, Kubernetes, AWS, GCP

Education

Carleton University
BCS in Computer Science AI/ML, Minor in Statistics — 3.92 GPA

Ottawa, ON
Expected April 2027

- Extracurricular:** Executive for varsity badminton and badminton club, ultimate/volleyball intramurals