Lei Wu

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Experience

8090 Solutions Inc. *Redwood City, CA*

Member of Technical Staff *May 2026 - Present*

- Designed a referral-to-onboarding system linking interview scores to **30/60/90-day performance reviews** to identify predictors of hiring success
- Cut CI runtime **50% (7.2→3.6 minutes)** by configuring Jest to transpile TypeScript without redundant type checking across all packages
- 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 *Toronto, ON*

AI Product Data Science Intern *Jan 2026 - Apr 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 *Toronto, ON*

Software Engineering Intern *May 2025 - Dec 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 *Toronto, ON*

Project Management Intern *Sept 2024 - Apr 2025*

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

Canada Border Services Agency *Ottawa, ON*

Data Analyst Intern *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 *Ottawa, ON*

Web Development Teaching Assistant *Fall 2023 & Fall 2025*

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

Projects

TFThandbook *Jan 2026 - Present*

- Built a full-stack Teamfight Tactics companion with robinsongz in **Next.js** and **TypeScript**, serving **70k MAU** and **5M requests/month**

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

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 *Ottawa, ON*

BCS in Computer Science (AI/ML), Minor in Statistics — 3.92 GPA *Expected Apr 2027*

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