

Jasmine Gu

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Front-end: React, TypeScript, JavaScript, Node.js, TailwindCSS | **Back-end:** Django, PostgreSQL, REST API | **AI/ML:** TensorFlow, PyTorch, Pandas, NumPy, LLaMA, Gemini, DeepSeek

WORK EXPERIENCE

Incoming Full-Stack Autodesk Spring

Frontend and Infrastructure Engineering Intern | Tesla

May 2025 - Aug 2025

- Built and shipped **10+ production-grade React components** (video overlays, portals, data tables, filter/search UI) using **TypeScript, React, and modern JS** to support ML labeling, anomaly detection, and threat-visualization workflows, **reduced page load time by 20%** through pagination, memoization, and debounced inputs
- **Developed a reusable high-performance video component** for large image/video datasets with lazy-loading, streaming optimizations, and cached frame metadata, **cutting time-to-insight by ~40%** for operations teams
- **Implemented input-validation, sanitization, and state-integrity safeguards** across factory interfaces (forms, video controls, search bars) to prevent injection risks and inconsistent UI state, improving overall platform reliability
- **Automated unit + integration test coverage** using Jest, React Testing Library, and mock service workers, increasing component robustness and enforcing a11y compliance (ARIA roles, keyboard navigation, etc)
- **Collaborated cross-functionally** with design, backend, and ML teams across 4 time zones, driving feature delivery via **Agile sprints, Jira workflow management, technical specs, and cross-team design reviews**

Data and AI Analyst (Research Assistant) | Richard Ivey Business School

January 2025 - May 2025

- **Architected multi-step data pipelines** integrating **LLM outputs (LLaMA, Gemini, DeepSeek)** into Python workflows (pandas, NumPy, SQL), **cutting manual preprocessing time by 50%**.
- Developed an **AI-powered data translation and classification system** for multilingual datasets, automating labeling and reducing manual effort by **400%**.
- **Benchmarked and stress-tested LLMs** for accuracy, latency, and consistency, achieving a **30% improvement in model precision** through systematic prompt engineering.
- Applied **AI anomaly detection and data-validation techniques** to ensure reliability of model outputs within enterprise-scale datasets.

Software Engineer Intern | Intuit

May 2024 - Aug 2024

- Utilizing **Javascript, HTML, CSS, React, Typescript**, and internal component library to design UI and functionality of **10+ components** including accordion style, UI animations & tables for TurboTax USA product
- Coded theming initiative of 4 pages and **RestAPI integrations** resulting in a **35% increase in user engagement** understanding **scalability, and data structures** across large scale **multi-tier software system**
- **Wrote unit tests and conducted QA** to enhance code robustness and identify edge-cases to maintain user experience using Jest and React Testing Library to **obtain a 25% decrease in bug reports**

Full-Stack Engineer Intern | LaurelSpace

Sep 2023 - Dec 2023

- Developed CRM web and mobile hybrid software for Childcare Providers following **Agile Scrum** methodology
- Created **user authentication process** and implemented **database for 3 user types** with **PostgreSQL, Axios, and Django** including functionalities such as data fetching, URL mapping, and session handling
- **Reduced 40% administrative efforts** through integrating **email automation system and Stripe Payment API**

Solutions Engineer, ServiceNow | OMERS

May 2023 - Aug 2023

- **Enhanced enterprise processes in by 60-70%** by designing UX, and programmed functionality of **8+ software and automation solutions** including intake forms, email notifications, and process flows
- Conducted **QA sessions, requirements analysis and UAT sessions** with stakeholders and non-technical end users to **understand user and business needs** resulting in a **90% testing success rate and 6+ features shipped**

Developer and Data Analyst Intern | Metaverse Group

Nov 2022- May 2023

- Programmed a **bot scraper with Python and Selenium** for email outreach that increased B2B outreach initiatives by **500% generating 900+ email leads**. Emails **refined from 80% to 20% bounce-back rate** and 54% open rate.

EDUCATION

University of Western Ontario - Bachelor's Dual Degree in Computer Science and Business

2022 - 2027