

Judy Zhou

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript C, R, HTML, CSS

Technologies: React, Tailwind CSS, PostgreSQL, FastAPI, Node.js, Firebase, pandas, GraphQL, scikit-learn, MongoDB, Git, Retool, Figma

WORK EXPERIENCE

RBC Amplify

May 2025 – August 2025

Software Developer Intern

Toronto, ON

- Designed and built a centralized KYC Dashboard (Angular + TypeScript + FastAPI) to replace legacy systems, reducing manual operator tasks from **1.5hrs to 5 minutes**
- Developed backend predictive action engine to support bulk operator workflows, enabling simultaneous actions across multiple clients and reducing manual review workload by **40%**
- Implemented Agentic AI chatbot integration using OpenAI SDK and websockets for automated workflows, client queries, and real-time agent handoffs, eliminating manual document searching across **5+ systems**
- Contributed to document processing pipeline using Azure Document Intelligence, and fuzzy matching to validate client documents, reducing **10%** client drop-off tied to **\$400M** in potential loan losses
- Built enterprise IaC with Terraform, Docker and GitHub Actions for OpenShift CI/CD, enabling **zero-incident** deployments

Somm.AI

May 2023 – December 2024

Software Developer Intern

New York City, NY

- Automated order fulfillment from Shopify to Shiphero using ShopifyAPI, GraphQL, and Retool, reducing processing time by **95%**
- Built a Python script to convert HTML, PDF, and JPEG menus into structured CSVs with **98% accuracy** using Azure Document Intelligence, Pillow, Search Transformers, and GPT-4o
- Developed a Chrome Extension AI Assistant using JavaScript, Flask, and Perplexity, reducing operator brand identification time by **32%** via file search, image analysis, and page-aware commands

PROJECTS

FurMe | *CohereAPI, DeepFace, Google Speech-To-Text, Microcontrollers, Firebase, Flask*

[UofT Hacks 11](#)

- 1st Place Overall** — Built an interactive AI companion using microcontrollers, servos, and voice control to recognize user emotions, respond to voice commands, dynamically follow user's movement and play nostalgic songs via DeepFace and Spotify API
- Implemented a surveillance dashboard using React JS, Cohere's Coral LLM & Agora RTC, enabling real-time viewing from Furby's camera perspective and virtual conversations with Furby

CoTA | *FastAPI, React, CoHereAPI, TailwindCSS, python-pptx*

[Delta Hacks 10](#)

- Best Education Hack** — Built a platform to turn lecture slides into short-form study videos using FastAPI backend and React frontend
- Used Cohere's RAG pipeline to summarize slide content and auto-generate comprehension tasks, improving retention for visual learners

HONK! | *Java Swing, GSON, Agile Scrum Methodology, Jira, BitBucket/Git, Confluence, JUnit*

[CS2212](#)

- Lead end-to-end development of a 2D game, earning a **99% final grade** for system design and performance
- Reduced load time by **80%** by optimizing thread handling with Swing Workers and eliminating UI latency from state transitions
- Wrote comprehensive JUnit tests to validate edge cases and ensure reliable gameplay behavior under varying input scenarios

EDUCATION

Ivey Business School, University of Western Ontario

London, ON

Bachelor of Computer Science, Honors in Business Administration (HBA)

Expected 2027

- GPA: 3.78/4.0, Dean's Honour List
- Courses: Data Structures & Algorithms, Operating Systems & C, Mathematics for Data Science, Introduction to Software Engineering