

Gordon Zhang

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EDUCATION

University of Waterloo

BASc in Computer Engineering, Honours, Co-op

Waterloo, ON

Sept 2024 - Present

EXPERIENCE

Shopify

Software Engineering Intern

Jan 2026 – Present

Toronto, ON

- Shipped email campaign tooling features using **React** and **Typescript** to support outbound messaging for **200k** daily users
- Integrated **GraphQL** APIs via Apollo Client to create, update, and validate mail campaign configuration and delivery state
- Implemented backend services with **Ruby** on Rails to schedule and deliver **37M** automated marketing emails every day

Better Angels LA

Full Stack Developer

Sept 2025 – Dec 2025

Waterloo, ON

- Developed a homeless shelter management system using React and Typescript for real-time tracking across **16k** beds in LA
- Implemented endpoints in **Django** to expose data to frontend, delivering on-demand access to shelter information
- Designed database integrations by connecting GraphQL APIs to a **PostgreSQL** databases for data creation and retrieval
- Developed real-time bed status updates that reduced shelter staff bed lookup from **2** minutes to **10** seconds

Ontario Ministry of Finance

Full Stack Developer

May 2025 – Aug 2025

Toronto, ON

- Developed a new revenue analysis web app using React and TypeScript for **150** analysts to model property tax data
- Designed RESTful APIs with **Python**, FastAPI and SQLAlchemy to eliminate the need for analysts to write SQL
- Optimized queries on a 275M-row Azure SQL Database, leveraging Elasticsearch to cut data retrieval time from **20s** to **3s**
- Delivered **6** dashboards and shipped **11k** lines of code to production with Agile sprints to launch an MVP in **9** weeks
- Implented GitLab CI/CD and **Docker** Compose, cutting dev setup time by **88%** and ensuring reliable deployments.
- Built and deployed services on **Linux**, using Bash to debug Docker containers and validate CI/CD pipelines

PROJECTS

WhaleBeing 🐋 | *JavaScript, React, Python, Flask, Azure, Tailwind CSS, Mapbox API*

DeltaHacks 1st Place

- Developed an AI-powered marine prediction web app with **React** and **Flask** to prevent **20,000** annual whale-ship collisions
- Programmed RESTful APIs with **Python** to provide whale distribution and risk assessment data to the front end
- Implemented a real-time data visualization algorithm with JavaScript and integrated Searoutes API to display routes
- Led frontend development by integrating a heat-map with Mapbox API to display year-round whale locations

Project Horizon 🌅 | *JavaScript, React, Python, Flask, Azure, Tailwind CSS, Mapbox API*

UofTHacks 2nd Place

- Built an AI model by fine-tuning Wan 2.1 with LoRA to transform third-person videos into first-person POV footage
- Developed a web app using React and TypeScript to select players in soccer footage and generate first-person POVs
- Implemented player tracking using YOLOv8 and integrated the Google Gemini API to identify and locate target player
- Placed 2nd overall out of 500 participants and first place in TwelveLabs and Backboard.io sponsor tracks

LooLooLoo 🐼 | *TypeScript, React, Node.js, Docker*

Hack the North Winner

- Developed a full stack indoor navigation web app using React and **Node.js** to direct users to selected destinations
- Integrated shortest path algorithm using TypeScript to show users real-time path to destination on a 3D map
- Containerized the backend using **Docker**, enabling seamless deployment and consistent runtime environments

SoccerMetrics ⚽ | *TypeScript, React, Python, Flask, Docker, Kubernetes, GCP, Tailwind CSS, MediaPipe API*

GeeseHacks Winner

- Built an AI soccer analysis web app with **React**, TypeScript and **Flask** to improve kicking form from uploaded videos
- Extracted pose landmarks with **Python** and MediaPipe API for biomechanical metrics and Ultralytics for ball detection
- Integrated OpenAI API by developing RESTful APIs to provide personalized feedback and calculate users' shot score
- Deployed application with Docker to containerize services, managing them with Kubernetes to host on Google Cloud

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Ruby, HTML, CSS, SQL

Frameworks: React, Next.js, Node.js, Flask, FastAPI, Vue.js, Express.js

Databases & Tools: Azure SQL Database, MongoDB, PostgreSQL, Tailwind CSS, SQLAlchemy, Vite, Postman

Cloud & DevOps: Docker, Git, GitLab CI/CD, Kubernetes, Google Cloud, Azure, AWS