Angela Zhou

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Skills

Programming Languages: TypeScript/JavaScript, Python, C/C++, Java, Bash

Web Development: React, Next.js, Node.js, Tailwind CSS, Framer Motion, Expo, Figma

Backend/Data: REST APIs, FastAPI, PostgreSQL, pgvector, MongoDB, BigQuery

Infrastructure: GCP, Cloudflare, Docker, Kubernetes, Linux, OpenShift, Grafana

Education

University of Waterloo — GPA 3.97 / 4.0   *Sep 2024 – Apr 2029*
Bachelor of Applied Science in Computer Engineering

- **Relevant Coursework:** Data Structures & Algorithms (C++), Digital Computers (RISC-V), Linear Algebra

Experience

Software Engineering Intern   *Sep 2025 – Dec 2025*
Shopify — TypeScript | Python | Playwright | GCP

- Pioneered Shopify's first autonomous E2E test repair system, integrating **Claude Swarm** with **Playwright MCP** to identify false positives and auto-patch failing tests, reducing debugging by **80%** and authoring **2** technical docs
- Spearheaded E2E development of internal **LLM** rating system used by **8K+ employees**, backed by 18 stakeholder interviews across 11 teams, driving high-performing AI model adoption from **20K+** to **40K+** daily requests
- Designed and shipped **TypeScript/React** AI feedback collection service, backed by **MongoDB** and **BigQuery** on **GCP**, driving org-wide submission of **3K+ ratings** within the first month

Founding Engineer   *Feb 2026 – Present*
Oro — Python | FastAPI | PostgreSQL | pgvector

- Pre-launch AI fashion app turning wardrobe items into occasion-based outfits (**15K+ email-verified waitlist**)
- Implemented **6 FastAPI** endpoints (segmentation, candidate search) for outfit processing, backed by **PostgreSQL** weighted edges, **pgvector** similarity search, and **GPT-4o** recommendation workflow

Software Engineering Intern   *Jan 2025 – Apr 2025*
Ericsson — Python | Bash | Docker | Kubernetes | OpenShift

- Shipped **Shell/Bash CLI** to automate CI pipeline setup, eliminating manual configuration steps and reducing onboarding and debugging overhead by **10+ hours per week**
- Implemented **Kubernetes** observability using **Prometheus**, **Loki**, and **Grafana**, surfacing real-time container health and failure signals to accelerate incident debugging

Frontend Lead & Website Designer ↗   *Oct 2025 – Present*
University of Waterloo EngHacks — JavaScript | React | Tailwind CSS | Figma

- Led a **4-engineer** team, spearheading technical direction; reviewed **20+ PRs**, and delivered v1 site in under **1 month** using **React**, **Tailwind CSS**, and **Framer Motion**
- Owned UI/UX, designing high-fidelity **Figma** prototypes aligned with branding, enabling parallel development

Projects

League of Legends Purity Test ↗ — Node.js | React | Cloudflare | Google Analytics   *2025*

- Launched viral web app attracting **50K+ users** in 2 weeks; handled **27K+** peak daily requests with zero downtime
- Deployed on **Cloudflare** with traffic insights via **Google Analytics**, maintaining **<50ms** average latency

3D Game Generation Platform ↗ — Next.js | Convex | Three.js | Expo | React Native   *2026*

- Built **Convex**-based multi-agent 3D game generation workflow served through **Next.js** interface
- Sandboxed generated code in **Freestyle VM**, previewing scenes with **Three.js** via **Expo**/**React Native** client

Discord LeetCode Bot ↗ — Node.js | Discord.js | REST APIs   *2025*

- Built event-driven bot using Discord.js serving **200+ developers**, integrating LeetCode **APIs** to automate daily challenge delivery and persistent streak tracking
- Deployed as long-running **Node.js** service with persistent state and automatic restarts, ensuring **24/7** availability