

Angela Zhou

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Skills

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

Web Development: React, Tailwind CSS, Node.js, REST APIs, MongoDB, BigQuery

Developer Tools: Git, Figma, Jira (Agile), Grafana, Prometheus, Elasticsearch

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

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)

Experience

Software Engineering Intern Sep 2025 – Dec 2025

Shopify — TypeScript | Python | Playwright | LLM | 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

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**
- Designed **Python** static analysis tool to trace root causes, cutting troubleshooting time by **20%** for **15+ engineers**
- Engineered log aggregation and filtering CLI for **OpenShift** clusters, enabling faster root-cause isolation across **30+** deployments by standardizing log formats and query workflows
- 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, architecture decisions, and development workflow; delegated issues and reviewed **20+ PRs**, improving code quality and reducing merge conflicts
- Owned UI/UX, designing high-fidelity **Figma** prototypes aligned with branding, enabling parallel development
- Delivered production-ready v1 website in under **1 month** using **React**, **Tailwind CSS**, and **Framer Motion**

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 using **Cloudflare** with traffic insights via **Google Analytics**, maintaining **<50ms** average latency

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

- Built event-driven Discord bot 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

Kubernetes Homelab Server — Kubernetes (k3s) | Docker | Linux | Networking 2026

- Built self-hosted **Kubernetes** homelab on repurposed hardware, automating cluster setup for scalable deployments
- Designed ingress routing with **Traefik**, enabling zero-config service exposure via Kubernetes manifests and reducing manual networking setup for future services